

107TH CONGRESS
1ST SESSION

S. 597

To provide for a comprehensive and balanced national energy policy.

IN THE SENATE OF THE UNITED STATES

MARCH 22, 2001

Mr. BINGAMAN (for himself, Mr. DASCHLE, Mr. AKAKA, Mr. BAUCUS, Mr. BREAUX, Ms. CANTWELL, Mr. DORGAN, Mr. LEAHY, Mr. REID, Mr. SCHUMER, Mr. KENNEDY, Mrs. MURRAY, Mr. ROCKEFELLER, and Mr. TORRICELLI) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

A BILL

To provide for a comprehensive and balanced national energy policy.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Comprehensive and
5 Balanced Energy Policy Act of 2001.”

6 **SEC. 2. ORGANIZATION OF ACT INTO DIVISIONS; TABLE OF**
7 **CONTENTS.**

8 (a) DIVISIONS.—This Act is organized into five divi-
9 sions as follows:

1 (1) DIVISION A.—National Energy Policy Plan-
2 ning and Coordination.

3 (2) DIVISION B.—Reliable and Diverse Power
4 Generation and Transmission.

5 (3) DIVISION C.—Domestic Oil and Gas Pro-
6 duction and Transportation.

7 (4) DIVISION D.—Diversifying Energy Demand
8 and Improving Efficiency.

9 (5) DIVISION E.—Enhancing Research, Devel-
10 opment, and Training.

11 (b) TABLE OF CONTENTS.—The table of contents for
12 this Act is as follows:

Sec. 1. Short title.

Sec. 2. Table of contents.

DIVISION A—NATIONAL ENERGY POLICY PLANNING AND COORDINATION

TITLE I—INTEGRATION OF ENERGY POLICY AND CLIMATE CHANGE POLICY

Subtitle A—National Commission on Energy and Climate Change

Sec. 101. National Commission on Energy and Climate Change.

Sec. 102. Duties of the Commission.

Sec. 103. Powers of the Commission.

Sec. 104. Commission personnel matters.

Sec. 105. Termination.

Sec. 106. Authorization of appropriations.

Sec. 107. Definition of Commission.

Subtitle B—International Clean Energy Technology Transfer

Sec. 111. International Clean Energy Technology Transfer.

TITLE II—REGIONAL COORDINATION ON ENERGY INFRASTRUCTURE

Sec. 201. Policy on regional coordination.

Sec. 202. Federal support for regional coordination.

TITLE III—REGULATORY REVIEWS AND STUDIES

- Sec. 301. Regulatory reviews for new technologies and processes.
- Sec. 302. Review of FERC policies on transmission and wholesale power markets.
- Sec. 303. Study of policies to address volatility in domestic oil and gas investment.
- Sec. 304. Power marketing administration rights-of-way study.
- Sec. 305. Review of natural gas pipeline certification procedures.
- Sec. 306. Streamlining fuel specifications.
- Sec. 307. Study on financing for new technologies.
- Sec. 308. Study on the use of the Strategic Petroleum Reserve.

DIVISION B—RELIABLE AND DIVERSE POWER GENERATION AND TRANSMISSION

TITLE IV—ELECTRIC ENERGY TRANSMISSION RELIABILITY

- Sec. 401. Electric reliability organization and oversight.
- Sec. 402. Application of antitrust laws.

TITLE V—IMPROVED ELECTRICITY CAPACITY AND ACCESS

- Sec. 501. Universal and affordable service.
- Sec. 502. Public benefits fund.
- Sec. 503. Rural construction grants.
- Sec. 504. Comprehensive Indian energy program.
- Sec. 505. Environmental disclosure to consumers.
- Sec. 506. Consumer protections.
- Sec. 507. Wholesale electricity market data.
- Sec. 508. Wholesale electric energy rates in the western energy market.
- Sec. 509. Natural gas rate ceiling in California.
- Sec. 510. Sale price in bundled natural gas transactions.

TITLE VI—RENEWABLES AND DISTRIBUTED GENERATION

- Sec. 601. Assessment of available renewable energy resources.
- Sec. 602. Federal purchase requirement.
- Sec. 603. Interconnection standards.
- Sec. 604. Net metering.
- Sec. 605. Access to transmission by intermittent generators.

TITLE VII—HYDROELECTRIC RELICENSING

- Sec. 701. Alternative conditions.
- Sec. 702. Disposition of hydroelectric charges.
- Sec. 703. Relicensing study.

TITLE VIII—COAL

- Sec. 801. Definitions.

Subtitle A—National Coal-Based Technology Development and Applications Program

- Sec. 811. Cost and performance goals.
- Sec. 812. Study.
- Sec. 813. Technology research and development programs.
- Sec. 814. Authorization of appropriations.

Subtitle B—Power Plant Improvement Initiative

- Sec. 821. Power plant improvement initiative program.
- Sec. 822. Financial assistance.
- Sec. 823. Funding.

TITLE IX—PRICE-ANDERSON ACT REAUTHORIZATION

- Sec. 901. Short title.
- Sec. 902. Indemnification authority.
- Sec. 903. Maximum assessment.
- Sec. 904. DOE liability limit.
- Sec. 905. Incidents outside the United States.
- Sec. 906. Reports.
- Sec. 907. Inflation adjustment.
- Sec. 908. Civil penalties.
- Sec. 909. Effective date.

DIVISION C—DOMESTIC OIL AND GAS PRODUCTION AND
TRANSPORTATION

TITLE X—OIL AND GAS PRODUCTION

- Sec. 1001. Outer Continental Shelf Oil and Gas Lease Sale 181.
- Sec. 1002. Federal onshore leasing programs for oil and gas.
- Sec. 1003. Increasing production on State and private lands.

TITLE XI—PIPELINE SAFETY RESEARCH AND DEVELOPMENT

- Sec. 1101. Pipeline integrity research and development.
- Sec. 1102. Pipeline integrity technical advisory committee.
- Sec. 1103. Authorization of appropriations.

DIVISION D—DIVERSIFYING ENERGY DEMAND AND IMPROVING
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TITLE XII—VEHICLES

- Sec. 1201. Vehicle fuel efficiency.
- Sec. 1202. Increased use of alternative fuels by federal fleets.
- Sec. 1203. Exception to HOV passenger requirements for alternative fuel vehicles.

TITLE XIII—FACILITIES

- Sec. 1301. Federal energy bank.
- Sec. 1302. Incentives for energy-efficient schools.
- Sec. 1303. Voluntary commitments to reduce industrial energy intensity.

DIVISION E—ENHANCING RESEARCH, DEVELOPMENT, AND
TRAINING

TITLE XIV—RESEARCH AND DEVELOPMENT PROGRAMS

- Sec. 1401. Short title and findings.
- Sec. 1402. Enhanced energy efficiency research and development.
- Sec. 1403. Enhanced renewable energy research and development.
- Sec. 1404. Enhanced fossil energy research and development.
- Sec. 1405. Enhanced nuclear energy research and development.

Sec. 1406. Enhanced programs in fundamental energy science.

TITLE XV—MANAGEMENT OF DOE SCIENCE AND TECHNOLOGY
PROGRAMS

Sec. 1501. Merit review.

Sec. 1502. Cost sharing.

Sec. 1503. Improved coordination and management of science and technology.

TITLE XVI—PERSONNEL AND TRAINING

Sec. 1601. Workforce trends and traineeship grants.

Sec. 1602. Training guidelines for electric energy industry personnel.

1 DIVISION A—NATIONAL ENERGY
2 POLICY PLANNING AND CO-
3 ORDINATION

4 TITLE I—INTEGRATION OF EN-
5 ERGY POLICY AND CLIMATE
6 CHANGE POLICY

7 Subtitle A—National Commission
8 on Energy and Climate Change

9 SEC. 101. NATIONAL COMMISSION ON ENERGY AND CLI-
10 MATE CHANGE.

11 (a) ESTABLISHMENT.—There is established a Na-
12 tional Commission on Energy and Climate Change, which
13 shall be an independent establishment within the executive
14 branch.

15 (b) MEMBERS.—

16 (1) APPOINTMENT.—The Commission shall con-
17 sist of 11 members who shall be appointed by the
18 President not later than 30 days after the date of
19 enactment of this title.

1 (2) COMPOSITION.—The members of the Com-
2 mission shall be—

3 (A) eminent in the field of—

4 (i) energy production, distribution, or
5 conservation,

6 (ii) energy science or technology,

7 (iii) environmental sciences,

8 (iv) global change sciences, or

9 (v) energy economics; and

10 (B) selected to reflect a fair balance among
11 the points of view represented.

12 (3) POLITICAL AFFILIATION.—No more than 6
13 members of the Commission may be members of the
14 same political party as the President. Not less than
15 half of the members of the minority party shall be
16 appointed from among a list of 12 persons nomi-
17 nated by the Democratic Leader of the United
18 States Senate and the Minority Leader of the
19 United States House of Representatives.

20 (4) CHAIRPERSON.—The President shall des-
21 ignate a member of the Commission to serve as its
22 chairperson.

23 (5) TERM.—Members shall be appointed for the
24 life of the Commission and may be removed by the

1 President only for inefficiency, neglect of duty, or
2 malfeasance in office.

3 (6) VACANCIES.—Any vacancy in the Commis-
4 sion shall be filled in the same manner as the origi-
5 nal appointment.

6 **SEC. 102. DUTIES OF THE COMMISSION.**

7 (a) ENERGY AND CLIMATE CHANGE STUDY.—

8 (1) IN GENERAL.—The Commission shall con-
9 duct a study of measures that—

10 (A) could achieve stabilization of green-
11 house gas emissions in the United States—

12 (i) at the 1990 level by not later than
13 2010; and

14 (ii) below the 1990 level by not later
15 than 2020;

16 (B) are consistent with the goals of an
17 overall United States energy and environmental
18 policy; and

19 (C) will lead to the long-term stabilization
20 of greenhouse gas concentrations.

21 (2) TYPES OF MEASURES.—The measures to be
22 studied under paragraph (1) shall include—

23 (A) a variety of cost-effective Federal and
24 State policies, programs, standards, and incen-
25 tives;

1 (B) a domestic or international system
 2 that integrates innovative, market-based solu-
 3 tions; and

4 (C) participation in other international in-
 5 stitutions, or in the support of international ac-
 6 tivities, that are established to achieve economi-
 7 cally and environmentally sound greenhouse gas
 8 stabilization solutions.

9 (b) RECOMMENDATIONS.—The Commission shall de-
 10 velop recommendations concerning—

11 (1) the measures described in subsection (a)(1)
 12 that the Commission determines to be appropriate
 13 for implementation, giving preference to cost-effec-
 14 tive, voluntary, and technologically feasible measures
 15 that will—

16 (A) produce measurable net reductions in
 17 United States emissions that lead toward the
 18 stabilization described in subsection (a)(1)(A);
 19 and

20 (B) minimize any adverse impacts on the
 21 economy of the United States; and

22 (2) the text of legislation and administrative ac-
 23 tions that would be necessary to effectuate the meas-
 24 ures.

25 (c) STRATEGY.—

1 (1) IN GENERAL.—Not later than one year
2 after the date of enactment of this title, the Com-
3 mission shall develop and submit to the Congress a
4 United States greenhouse gas management strategy
5 that contains—

6 (A) a detailed statement of the findings
7 and conclusions of the Commission;

8 (B) the recommendations of the Commis-
9 sion for such legislative and administrative ac-
10 tions as the Commission considers appropriate;
11 and

12 (C) appropriate funding recommendations
13 to carry out the recommendations under sub-
14 paragraph (B).

15 (2) REQUIRED RECOMMENDATIONS.—Rec-
16 ommendations under paragraph (1)(B) shall include
17 specific recommendations concerning—

18 (A) the development of—

19 (i) advanced technologies for a full
20 range of energy sources;

21 (ii) enhanced energy efficiency and
22 conservation measures; and

23 (iii) alternative energy technologies
24 and energy sources;

1 (B) economically and environmentally
2 sound emission reduction strategies to stabilize
3 atmospheric concentrations of greenhouse
4 gases;

5 (C) such changes in institutional and tech-
6 nological systems as are necessary to adapt to
7 climate change in the near term and the long
8 term; and

9 (D) such review, modification, and en-
10 hancement of the scientific and economic re-
11 search efforts of the United States, and im-
12 provements to the data resulting from such re-
13 search, as are appropriate to improve the accu-
14 racy of predictions concerning climate change
15 and economic costs and opportunities.

16 **SEC. 103. POWERS OF THE COMMISSION.**

17 (a) HEARINGS.—The Commission may hold such
18 hearings, sit and act at such times and places, take such
19 testimony, and receive such evidence as the Commission
20 considers advisable to carry out the duties of the Commis-
21 sion under this title.

22 (b) INFORMATION FROM FEDERAL AGENCIES.—The
23 Commission may secure directly from any Federal depart-
24 ment or agency such information as the Commission con-
25 siders necessary to carry out the duties of the Commission

1 under this title. Upon request of the Chairperson of the
2 Commission, the head of such department or agency shall
3 furnish such information to the Commission.

4 (c) POSTAL SERVICES.—The Commission may use
5 the United States mails in the same manner and under
6 the same conditions as other departments and agencies of
7 the Federal Government.

8 **SEC. 104. COMMISSION PERSONNEL MATTERS.**

9 (a) COMPENSATION OF MEMBERS.—A member of the
10 Commission shall be compensated at a rate equal to the
11 daily equivalent of the annual rate of basic pay prescribed
12 for level IV of the Executive Schedule under section 5315
13 of title 5, United States Code, for each day (including
14 travel time) during which the member is engaged in the
15 performance of the duties of the Commission.

16 (b) TRAVEL EXPENSES.—A member of the Commis-
17 sion shall be allowed travel expenses, including per diem
18 in lieu of subsistence, at rates authorized for an employee
19 of an agency under subchapter I of chapter 57 of title
20 5, United States Code, while away from the home or reg-
21 ular place of business of the member in the performance
22 of the duties of the Commission.

23 (c) STAFF.—

24 (1) APPOINTMENT.—The Chairperson of the
25 Commission may, without regard to the civil service

1 laws and regulations, appoint and terminate an execu-
2 tive director and such other additional personnel as
3 may be necessary to enable the Commission to per-
4 form its duties. The appointment and termination of
5 the executive director shall be subject to confirma-
6 tion by the Commission.

7 (2) COMPENSATION.—

8 (A) IN GENERAL.—Except as provided in
9 subparagraph (B), the Chairperson of the Com-
10 mission may fix the compensation of the execu-
11 tive director and other personnel without regard
12 to the provisions of chapter 51 and subchapter
13 III of chapter 53 of title 5, United States Code,
14 relating to classification of positions and Gen-
15 eral Schedule pay rates.

16 (B) MAXIMUM RATE OF PAY.—The rate of
17 pay for the executive director and other per-
18 sonnel may not exceed the rate payable for level
19 V of the Executive Schedule under section 5316
20 of title 5, United States Code.

21 (d) DETAIL OF GOVERNMENT EMPLOYEES.—Upon
22 the request of the Chairperson of the Commission, the
23 head of any Federal department or agency may detail em-
24 ployees to the Commission without reimbursement, and

1 without interruption or loss of civil service status or privi-
2 lege.

3 (e) PROCUREMENT OF TEMPORARY OR INTERMIT-
4 TENT SERVICES.—The Chairperson of the Commission
5 may procure temporary and intermittent services in ac-
6 cordance with section 3109(b) of title 5, United States
7 Code, at rates for individuals that do not exceed the daily
8 equivalent of the annual rate of basic pay prescribed for
9 level V of the Executive Schedule under section 5316 of
10 that title.

11 **SEC. 105. TERMINATION.**

12 The Commission shall terminate 90 days after the
13 date on which the Commission submits the report under
14 section 102(b).

15 **SEC. 106. AUTHORIZATION OF APPROPRIATIONS.**

16 There are authorized to be appropriated such sums
17 as may be necessary to carry out this section, which shall
18 remain available until expended.

19 **SEC. 107. DEFINITION OF COMMISSION.**

20 For purposes of this title, the term “Commission”
21 means the National Commission on Energy and Climate
22 Change established by section 101(a).

1 **Subtitle B—International Clean**
 2 **Energy Technology Transfer**

3 **SEC. 111. INTERNATIONAL CLEAN ENERGY TECHNOLOGY**
 4 **TRANSFER.**

5 (a) DEFINITIONS.—In this section:

6 (1) CLEAN ENERGY TECHNOLOGY.—The term
 7 “clean energy technology” means an energy supply
 8 or end-use technology that, over its lifecycle and
 9 compared to a similar technology already in commer-
 10 cial use in developing countries or countries in
 11 transition—

12 (A) emits substantially lower levels of pol-
 13 lutants or greenhouse gases; and

14 (B) generates substantially smaller or less
 15 toxic volumes of solid or liquid waste.

16 (2) INTERAGENCY WORKING GROUP.—The term
 17 “interagency working group” means the Interagency
 18 Working Group on Clean Energy Technology Trans-
 19 fer established under subsection (b).

20 (b) INTERAGENCY WORKING GROUP.—

21 (1) ESTABLISHMENT.—Not later than 180 days
 22 after the date of enactment of this section, the Sec-
 23 retary of Energy, the Secretary of Commerce, and
 24 the Administrator of the U.S. Agency for Inter-
 25 national Development shall jointly establish a Inter-

1 agency Working Group on Clean Energy Technology
2 Transfer. The interagency working group will focus
3 on the transfer of clean energy technology to the de-
4 veloping countries and countries in transition that
5 are expected to experience, over the next 20 years,
6 the most significant growth in energy production
7 and associated greenhouse gas emissions.

8 (2) MEMBERSHIP.—The interagency working
9 group shall be jointly chaired by representatives ap-
10 pointed by the agency heads under paragraph (1)
11 and shall also include representatives from the De-
12 partment of State, the Department of Treasury, the
13 Environmental Protection Agency, the Export-Im-
14 port Bank, the Overseas Private Investment Cor-
15 poration, the Trade and Development Agency, and
16 other federal agencies as deemed appropriate by all
17 three agency heads under paragraph (1).

18 (3) DUTIES.—The interagency working group
19 shall—

20 (A) analyze technology, policy, and market
21 opportunities for international development,
22 demonstration, and deployment of clean energy
23 technology;

24 (B) investigate issues associated with
25 building capacity to deploy clean energy tech-

nology in developing countries and countries in transition, including—

(i) energy-sector reform;

(ii) creation of open, transparent, and competitive markets for energy technologies;

(iii) availability of trained personnel to deploy and maintain the technology; and

(iv) demonstration and cost-buydown mechanisms to promote first adoption of the technology;

(C) consult with the private sector and other interested groups on the export and deployment of clean energy technology;

(D) monitor each agency's progress towards meeting goals in the 5-year strategic plan submitted to Congress pursuant to the Energy and Water Development Appropriations Act, 2001;

(E) make recommendations to heads of appropriate Federal agencies on ways to streamline federal programs and policies to improve each agency's role in the international development, demonstration, and deployment of clean energy technology.

1 (c) FEDERAL SUPPORT FOR CLEAN ENERGY TECH-
 2 NOLOGY TRANSFER.—Notwithstanding any other provi-
 3 sion of law, each federal agency or government corporation
 4 carrying out an assistance program in support of the ac-
 5 tivities of United States persons in the environment or en-
 6 ergy sector of a developing country or country in transi-
 7 tion shall support, to the maximum extent practicable, the
 8 transfer of United States clean energy technology as part
 9 of that program.

10 (d) AUTHORIZATION OF APPROPRIATIONS.—There
 11 are authorized to be appropriated to the departments,
 12 agencies, and entities of the United States described in
 13 subsection (b) such sums as may be necessary to support
 14 the transfer of clean energy technology, consistent with
 15 the subsidy codes of the World Trade Organization, as
 16 part of assistance programs carried out by those depart-
 17 ments, agencies, and entities in support of activities of
 18 United States persons in the energy sector of a developing
 19 country or country in transition.

20 **TITLE II—REGIONAL COORDINA-** 21 **TION ON ENERGY INFRA-** 22 **STRUCTURE**

23 **SEC. 201. POLICY ON REGIONAL COORDINATION.**

24 (a) STATEMENT OF POLICY.—It is the policy of the
 25 Federal Government to encourage States to coordinate, on

1 a regional basis, State energy policies to provide reliable
 2 and affordable energy services to the public while mini-
 3 mizing the impact of providing energy services on commu-
 4 nities and the environment.

5 (b) DEFINITION OF ENERGY SERVICES.—For pur-
 6 poses of this section, the term “energy services” means—

7 (1) the generation or transmission of electric
 8 energy,

9 (2) the transportation, storage, and distribution
 10 of crude oil, residual fuel oil, refined petroleum prod-
 11 uct, or natural gas, or

12 (3) the reduction in load through increased effi-
 13 ciency, conservation, or load control measures.

14 **SEC. 202. FEDERAL SUPPORT FOR REGIONAL COORDINA-**
 15 **TION.**

16 (a) TECHNICAL ASSISTANCE.—The Secretary of En-
 17 ergy may provide technical assistance to States and re-
 18 gional organizations formed by two or more States to as-
 19 sist them in coordinating their energy policies on a re-
 20 gional basis. Such technical assistance may include assist-
 21 ance in—

22 (1) assessing future supply availability and de-
 23 mand requirements,

24 (2) planning and siting additional energy infra-
 25 structure, including generating facilities, electric

- 1 transmission facilities, pipelines, refineries, and dis-
2 tributed generation facilities to meet regional needs,
3 (3) identifying and resolving problems in dis-
4 tribution networks,
5 (4) developing plans to respond to surge de-
6 mand or emergency needs, and
7 (5) developing energy efficiency, conservation,
8 and load control programs.

9 (b) ANNUAL CONFERENCE ON REGIONAL ENERGY
10 COORDINATION.—

11 (1) ANNUAL CONFERENCE.—The Secretary of
12 Energy shall convene an annual conference to pro-
13 mote regional coordination on energy policy and in-
14 frastructure issues.

15 (2) PARTICIPATION.—The Secretary of Energy
16 shall invite appropriate representatives of federal,
17 state, and regional energy organizations, and other
18 interested parties.

19 (3) FEDERAL AGENCY COOPERATION.—The
20 Secretary of Energy shall consult and cooperate with
21 the Secretary of the Interior, the Secretary of Agri-
22 culture, the Secretary of Commerce, the Secretary of
23 the Treasury, the Chairman of the Federal Energy
24 Regulatory Commission, the Administrator of the
25 Environmental Protection Agency, and the Chair-

1 man of the Council on Environmental Quality in the
 2 planning and conduct of the conference.

3 (4) AGENDA.—The Secretary of Energy, in con-
 4 sultation with the officials identified in paragraph
 5 (3) and participants identified in paragraph (2),
 6 shall establish an agenda for each conference that
 7 promotes regional coordination on energy policy and
 8 infrastructure issues.

9 (5) RECOMMENDATIONS.—Not later than 60
 10 days after the conclusion of each annual conference,
 11 the Secretary of Energy shall report to the President
 12 and the Congress recommendations arising out of
 13 the conference that may improve—

14 (A) regional coordination on energy policy
 15 and infrastructure issues, and

16 (B) federal support for regional coordina-
 17 tion.

18 **TITLE III—REGULATORY** 19 **REVIEWS AND STUDIES**

20 **SEC. 301. REGULATORY REVIEWS FOR NEW TECHNOLOGIES** 21 **AND PROCESSES.**

22 (a) REGULATORY REVIEWS.—Not later than one year
 23 after the date of enactment of this section and every five
 24 years thereafter, each Federal agency shall review its reg-
 25 ulations and standards to identify—

1 (1) existing regulations or standards that act as
2 barriers to market entry for emerging energy tech-
3 nologies (including fuel cells, combined heat and
4 power, distributed generation, and small-scale renew-
5 able energy), and

6 (2) actions the agency is taking or could take
7 to—

8 (A) remove barriers to market entry for
9 emerging energy technologies,

10 (B) increase energy efficiency, or

11 (C) encourage the use of new processes to
12 meet energy and environmental goals.

13 (b) REPORT TO CONGRESS.—Not later than 18
14 months after the date of enactment of this section, and
15 every five years thereafter, the Director of the Office of
16 Science and Technology Policy shall report to the Con-
17 gress on the results of the agency reviews conducted under
18 subsection (a).

19 (c) CONTENTS OF THE REPORT.—The report shall—

20 (1) identify all regulatory barriers to the devel-
21 opment and commercialization of emerging energy
22 technologies and processes,

23 (2) actions taken, or proposed to be taken, to
24 remove such barriers, and

1 (3) recommendations for changes in laws or
2 regulations that may be needed to—

3 (A) expedite the siting and development of
4 energy production and distribution facilities,

5 (B) encourage the adoption of energy effi-
6 ciency and process improvements, and

7 (C) reduce the environmental impacts of
8 energy facilities through transparent and flexi-
9 ble compliance methods.

10 **SEC. 302. REVIEW OF FERC POLICIES ON TRANSMISSION**
11 **AND WHOLESALE POWER MARKETS.**

12 (a) STUDY.—The Federal Energy Regulatory Com-
13 mission shall reevaluate its regulatory policies on the
14 transmission of electric energy and wholesale power rates.

15 (b) SCOPE OF STUDY.—The study shall—

16 (1) reevaluate the methods and models for de-
17 termining market power, taking into account the ex-
18 perience in the Western power grid,

19 (2) reevaluate the adequacy and appropriate-
20 ness of the Commission’s definition of “market
21 power” as applied to wholesale power markets and
22 the transmission grid,

23 (3) analyze the impact of wholesale price vola-
24 tility on power markets and the effect on the na-

1 tional interest in a reliable and affordable electricity
 2 system,

3 (4) reevaluate the Commission's policies on
 4 transmission, specifically identifying policy changes
 5 that may be needed to ensure adequate construction
 6 of transmission capacity and operating procedures to
 7 ensure the most efficient use of the transmission
 8 grid, and

9 (5) determine the adequacy of the Commission's
 10 voluntary approach to forming regional transmission
 11 organizations.

12 (c) REPORT.—The Commission shall report its find-
 13 ings to the Congress not later than 120 days after the
 14 date of the enactment of this section.

15 **SEC. 303. STUDY OF POLICIES TO ADDRESS VOLATILITY IN**
 16 **DOMESTIC OIL AND GAS INVESTMENT.**

17 (a) STUDY.—The Secretary of Energy, in close co-
 18 ordination with the Secretary of the Interior, the Sec-
 19 retary of Commerce, the Secretary of Treasury, and the
 20 Interstate Oil and Gas Compact Commission, shall evalu-
 21 ate the impact existing federal and state tax and royalty
 22 policies have on the development of domestic oil and gas
 23 resources.

24 (b) SCOPE OF STUDY.—The study under subsection
 25 (a) shall analyze—

1 (1) the impact on development and drilling of
2 different price scenarios for oil and natural gas;

3 (2) the impact of the Alternative Minimum Tax
4 and fixed royalty rates on maintaining development
5 drilling during periods of depressed prices;

6 (3) the effect of Federal and state tax and roy-
7 alty policies on investment in different geological
8 and developmental circumstances, including but not
9 limited to deepwater environments, subsalt forma-
10 tions, well-depth environments, coalbed methane and
11 other unconventional gas formations, and Arctic con-
12 ditions; and

13 (4) compare those policies with tax and royalty
14 regimes in other countries with similar geological,
15 developmental and infrastructure conditions.

16 (c) Upon completion of the study under subsection
17 (a), a report describing the findings and recommendations
18 for policy changes shall be provided to the Congress and
19 the Governors of the member states of the Interstate Oil
20 and Gas Compact Commission. The recommendations
21 should ensure that the public interest in receiving the eco-
22 nomic benefits of tax and royalty revenues is balanced
23 against the need for revised policies to—

24 (1) maintain adequate natural gas development
25 drilling during periods of low world oil prices;

1 (2) ameliorate the boom-bust cycles negatively
2 affecting the oil and gas service industry; and

3 (3) ensure a consistent level of domestic activity
4 to encourage the education and retention of a tech-
5 nical workforce.

6 (d) The study under subsection (a) shall be completed
7 not later than 240 days after the date of enactment of
8 this section. The report required in (b) shall be trans-
9 mitted to Congress not later than 60 days following the
10 completion of the study.

11 **SEC. 304. POWER MARKETING ADMINISTRATION RIGHTS-**
12 **OF-WAY STUDY.**

13 The Secretary of Energy shall conduct a study of the
14 rights-of-way owned by the Federal power marketing
15 agencies and the Tennessee Valley Authority to determine
16 their location and whether they can be used by pipelines
17 or other transmission services where new capacity is need-
18 ed. Not later than one year after the date of enactment
19 of this section, the Secretary shall transmit a report to
20 Congress summarizing the results of the study.

21 **SEC. 305. REVIEW OF NATURAL GAS PIPELINE CERTIFI-**
22 **CATION PROCEDURES.**

23 (a) FERC REVIEW.—The Federal Energy Regu-
24 latory Commission shall, in consultation with other appro-
25 priate Federal agencies, conduct a comprehensive review

1 of policies, procedures, and regulations for the certifi-
2 cation of natural gas pipelines to determine how to reduce
3 the cost and time of obtaining a certificate. The Commis-
4 sion shall report its findings and any recommendations for
5 legislation to the Committee on Energy and Natural Re-
6 sources of the United States Senate and the Committee
7 on Energy and Commerce of the United States House of
8 Representatives not later than 6 months after the date
9 of enactment of this section.

10 (b) INTERAGENCY REVIEW.—The Chairman of the
11 Council on Environmental Quality, in coordination with
12 the Federal Energy Regulatory Commission, shall estab-
13 lish an interagency task force to develop an interagency
14 memorandum of understanding to expedite the environ-
15 mental review and permitting of natural gas pipeline
16 projects.

17 (c) MEMBERSHIP OF INTERAGENCY TASK FORCE.—
18 The task force shall consist of—

19 (1) the Chairman of the Council on Environ-
20 mental Quality, who shall serve as the Chairman of
21 the interagency task force,

22 (2) the Chairman of the Federal Energy Regu-
23 latory Commission,

24 (3) the Director of the Bureau of Land Man-
25 agement,

1 (4) the Director of the U.S. Fish and Wildlife
2 Service,

3 (5) the Commanding General, U.S. Army Corps
4 of Engineers,

5 (6) the Chief of the Forest Service,

6 (7) the Administrator of the Environmental
7 Protection Agency,

8 (8) the Chairman of the Advisory Council on
9 Historic Preservation, and

10 (9) and the heads of such other agencies as the
11 Chairman of the Council on Environmental Quality
12 and the Chairman of the Federal Energy Regulatory
13 Commission deem appropriate.

14 (d) MEMORANDUM OF UNDERSTANDING.—The agen-
15 cies represented by the members of the interagency task
16 force shall enter into the memorandum of understanding
17 not later than one year after the date of the enactment
18 of this section.

19 **SEC. 306. STREAMLINING FUEL SPECIFICATIONS.**

20 (a) REPORT.—Not later than nine months after the
21 date of enactment of this title, the Administrator of the
22 Environmental Protection Agency and the Secretary of
23 Energy shall jointly report to the Congress on the tech-
24 nical and economic feasibility of developing national or re-

1 gional vehicle fuel specifications for the contiguous United
2 States that would—

3 (1) enhance flexibility in the distribution of
4 fuels,

5 (2) reduce price volatility and costs to con-
6 sumers and producers, and

7 (3) meet local, regional, and national air quality
8 requirements and goals.

9 (b) RECOMMENDATIONS.—The report shall include
10 recommendations for appropriate changes to existing laws
11 and regulations.

12 (c) CONSULTATION.—The Administrator and the
13 Secretary shall consult with the Governors of the several
14 States, automobile manufacturers, vehicle fuel producers
15 and distributors, and the public in the preparation of the
16 report.

17 **SEC. 307. STUDY OF FINANCING FOR NEW TECHNOLOGIES.**

18 (a) INDEPENDENT ASSESSMENT.—The Secretary of
19 Energy shall commission an independent assessment of in-
20 novative financing techniques to facilitate construction of
21 new electricity supply technologies that might not other-
22 wise be built in a competitive electricity market.

23 (b) CONDUCT OF THE ASSESSMENT.—The Secretary
24 shall retain an independent contractor with proven exper-

1 tise in financing large capital projects or in financial serv-
 2 ices consulting to conduct the assessment.

3 (c) CONTENT OF THE ASSESSMENT.—The assess-
 4 ment shall include a comprehensive examination of all
 5 available techniques to safeguard private investors against
 6 risks (including both market-based and government-im-
 7 posed risks) that are beyond the control of the investors.
 8 Such techniques may include Federal loan guarantees,
 9 Federal price guarantees, special tax considerations, and
 10 direct Federal investment.

11 (d) REPORT.—The Secretary shall submit the results
 12 of the independent assessment to the Congress not later
 13 than 9 months after the date of enactment of this section.

14 **SEC. 308. STUDY ON THE USE OF THE STRATEGIC PETRO-**
 15 **LEUM RESERVE.**

16 (a) REPORT.—The Secretary of Energy shall report
 17 to the President and to the Committee on Energy and
 18 Natural Resources of the United States Senate and the
 19 Committee on Energy and Commerce of the United States
 20 House of Representatives, not later than 6 months after
 21 the date of enactment of this title, on whether section 161
 22 of the Energy Policy and Conservation Act (42 U.S.C.
 23 6241) should be amended to give the Secretary greater
 24 flexibility to drawdown and distribute the Reserve to miti-
 25 gate price volatility or regional supply shortages.

1 (b) CONTENTS OF THE REPORT.—The Secretary
2 shall include in the report—

3 (1) an assessment of how extreme market con-
4 ditions in the past (including, in particular, the con-
5 ditions between July 1990 and February 1991) may
6 have been mitigated by more timely use of the Re-
7 serve, and

8 (2) specific recommendations for any changes in
9 the existing law the Secretary determines to be nec-
10 essary or desirable and a statement of the reasons
11 for any such changes.

12 **DIVISION B—DIVERSE AND RELI-**
13 **ABLE POWER GENERATION**
14 **AND TRANSMISSION**
15 **TITLE IV—ELECTRIC ENERGY**
16 **TRANSMISSION RELIABILITY**

17 **SEC. 401. ELECTRIC RELIABILITY ORGANIZATION AND**
18 **OVERSIGHT.**

19 (a) IN GENERAL.—Part II of the Federal Power Act
20 (16 U.S.C. 824–824m) is amended by adding at the end
21 the following:

22 **“SEC. 216. ELECTRIC RELIABILITY ORGANIZATION AND**
23 **OVERSIGHT.**

24 **“(a) DEFINITIONS.—As used in this section:**

1 “(1) AFFILIATED REGIONAL RELIABILITY ENTI-
2 TY.—The term ‘affiliated regional reliability entity’
3 means an entity delegated authority under the provi-
4 sions of subsection (h).

5 “(2) BULK POWER SYSTEM.—The term ‘bulk
6 power system’ means all facilities and control sys-
7 tems necessary for operating an interconnected
8 transmission grid (or any portion thereof, including
9 high-voltage transmission lines; substations; control
10 centers; communications; data, and operations plan-
11 ning facilities; and the output of generating units
12 necessary to maintain transmission system reli-
13 ability.

14 “(3) ELECTRIC RELIABILITY ORGANIZATION, OR
15 ORGANIZATION.—The term ‘Electric Reliability Or-
16 ganization’ or ‘Organization’ means the organization
17 approved by the Commission under subsection
18 (d)(4).

19 “(4) ENTITY RULE.—The term ‘entity rule’
20 means a rule adopted by an affiliated regional reli-
21 ability entity for a specific region and designed to
22 implement or enforce one or more Organization
23 Standards. An entity rule shall be approved by the
24 organization and once approved, shall be treated as
25 an Organization Standard.

1 “(5) INDUSTRY SECTOR.—The term ‘industry
2 sector’ means a group of users of the bulk power
3 system with substantially similar commercial inter-
4 ests, as determined by the Board of the Electric Re-
5 liability Organization.

6 “(6) INTERCONNECTION.—The term ‘inter-
7 connection’ means a geographic area in which the
8 operation of bulk power system components is syn-
9 chronized such that the failure of one or more of
10 such components may adversely affect the ability of
11 the operators of other components within the inter-
12 connection to maintain safe and reliable operation of
13 the facilities within their control.

14 “(7) ORGANIZATION STANDARD.—The term
15 ‘Organization Standard’ means a policy or standard
16 duly adopted by the Electric Reliability Organization
17 to provide for the reliable operation of a bulk power
18 system.

19 “(8) PUBLIC INTEREST GROUP.—The term
20 ‘public interest group’ means any nonprofit private
21 or public organization that has an interest in the ac-
22 tivities of the Electric Reliability Organization, in-
23 cluding, but not limited to, ratepayer advocates, en-
24 vironmental groups, and State and local government

1 organizations that regulate market participants and
2 promulgate government policy.

3 “(9) VARIANCE.—The term ‘variance’ means an
4 exception or variance from the requirements of an
5 Organization Standard (including a proposal for an
6 Organization Standard where there is no Organiza-
7 tion Standard) that is adopted by an affiliated re-
8 gional reliability entity and applicable to all or a
9 part of the region for which the affiliated regional
10 reliability entity is responsible. A variance shall be
11 approved by the organization and once approved,
12 shall be treated as an Organization Standard.

13 “(10) SYSTEM OPERATOR.—The term ‘system
14 operator’ means any entity that operates or is re-
15 sponsible for the operation of a bulk power system,
16 including but not limited to a control area operator,
17 an independent system operator, a regional trans-
18 mission organization, a transmission company, a
19 transmission system operator, or a regional security
20 coordinator.

21 “(11) USER OF THE BULK POWER SYSTEM.—
22 The term ‘user of the bulk power system’ means any
23 entity that sells, purchases, or transmits electric
24 power over a bulk power system, or that owns, oper-
25 ates, or maintains facilities or control systems that

1 are part of a bulk power system, or that is a system
2 operator.

3 “(b) COMMISSION AUTHORITY.—

4 “(1) Within the United States, the Commission
5 shall have jurisdiction over the Electric Reliability
6 Organization, all affiliated regional reliability enti-
7 ties, all system operators, and all users of the bulk-
8 power system, for purposes of approving and enforce-
9 ing compliance with the requirements of this section.

10 “(2) The Commission may, by rule, define any
11 other term used in this section, provided such defini-
12 tion is consistent with the definitions in, and the
13 purpose and intent of, this Act.

14 “(3) Not later than 90 days after the date of
15 enactment of this section, the Commission shall
16 issue a proposed rule for implementing the require-
17 ments of this section. The Commission shall provide
18 notice and opportunity for comment on the proposed
19 rule. The Commission shall issue a final rule under
20 this subsection within 180 days after the date of en-
21 actment of this section.

22 “(4) Nothing in this section shall be construed
23 as limiting or impairing any authority of the Com-
24 mission under any other provision of this Act, in-
25 cluding its exclusive authority to determine rates,

1 terms, and conditions of transmission services sub-
2 ject to its jurisdiction.

3 “(c) EXISTING RELIABILITY STANDARDS.—Fol-
4 lowing enactment of this section, and prior to the approval
5 of an organization under subsection (d), any entity, in-
6 cluding the North American Electric Reliability Council
7 and its member regional reliability councils, may file any
8 reliability standard, guidance, or practice that such entity
9 would propose to be made mandatory and enforceable. The
10 Commission, after allowing an opportunity to submit com-
11 ments, may approve any such proposed mandatory stand-
12 ard, guidance, or practice, or any amendment thereto, if
13 it finds that the standard, guidance, or practice, or
14 amendment is just, reasonable, not unduly discriminatory
15 or preferential, and in the public interest. The Commission
16 may, without further proceeding or finding, grant its ap-
17 proval to any standard, guidance, or practice for which
18 no substantive objections are filed in the comment period.
19 Filed standards, guidances, or practices, including any
20 amendments thereto, shall be mandatory and applicable
21 according to their terms following approval by the Com-
22 mission and shall remain in effect until—

23 “(1) withdrawn, disapproved, or superseded by
24 an Organization Standard, issued or approved by the

1 Electric Reliability Organization and made effective
2 by the Commission under subsection (e); or

3 “(2) disapproved by the Commission if, upon
4 complaint or upon its own motion and after notice
5 and an opportunity for comment, the Commission
6 finds the standard, guidance, or practice unjust, un-
7 reasonable, unduly discriminatory, or preferential or
8 not in the public interest. Standards, guidances, or
9 practices in effect pursuant to the provisions of this
10 subsection shall be enforceable by the Commission.

11 “(d) ORGANIZATION APPROVAL.—

12 “(1) Following the issuance of a final Commis-
13 sion rule under subsection (b)(3), an entity may sub-
14 mit an application to the Commission for approval
15 as the Electric Reliability Organization. The appli-
16 cant shall specify in its application its governance
17 and procedures, as well as its funding mechanism
18 and initial funding requirements.

19 “(2) The Commission shall provide public no-
20 tice of the application and afford interested parties
21 an opportunity to comment.

22 “(3) The Commission shall approve the applica-
23 tion if the Commission determines that the
24 applicant—

1 “(A) has the ability to develop, implement,
2 and enforce standards that provide for an ade-
3 quate level of reliability of the bulk power sys-
4 tem;

5 “(B) permits voluntary membership to any
6 user of the bulk power system or public interest
7 group;

8 “(C) assures fair representation of its
9 members in the selection of its directors and
10 fair management of its affairs, taking into ac-
11 count the need for efficiency and effectiveness
12 in decisionmaking and operations and the re-
13 quirements for technical competency in the de-
14 velopment of Organization Standards and the
15 exercise of oversight of bulk power system reli-
16 ability;

17 “(D) assures that no two industry sectors
18 have the ability to control, and no one industry
19 sector has the ability to veto, the Electric Reli-
20 ability Organization’s discharge of its respon-
21 sibilities (including actions by committees rec-
22 ommending standards to the board or other
23 board actions to implement and enforce stand-
24 ards);

1 “(E) provides for governance by a board
2 wholly comprised of independent directors;

3 “(F) provides a funding mechanism and
4 requirements that are just, reasonable, and not
5 unduly discriminatory or preferential and are in
6 the public interest, and which satisfy the re-
7 quirements of subsection (I);

8 “(G) establishes procedures for develop-
9 ment of Organization Standards that provide
10 reasonable notice and opportunity for public
11 comment, taking into account the need for effi-
12 ciency and effectiveness in decisionmaking and
13 operations and the requirements for technical
14 competency in the development of Organization
15 Standards, and which standards development
16 process has the following attributes—

17 “(i) openness;

18 “(ii) balance of interests; and

19 “(iii) due process, except that the pro-
20 cedures may include alternative procedures
21 for emergencies;

22 “(H) establishes fair and impartial proce-
23 dures for implementation and enforcement of
24 Organization Standards, either directly or
25 through delegation to an affiliated regional reli-

1 ability entity, including the imposition of pen-
2 alties, limitations on activities, functions, or op-
3 erations, or other appropriate sanctions;

4 “(I) establishes procedures for notice and
5 opportunity for public observation of all meet-
6 ings, except that the procedures for public ob-
7 servation may include alternative procedures for
8 emergencies or for the discussion of information
9 the directors determine should take place in
10 closed session, such as litigation, personnel ac-
11 tions, or commercially sensitive information;

12 “(J) provides for the consideration of rec-
13 ommendations of States and State commissions;
14 and

15 “(K) addresses other matters that the
16 Commission may deem necessary or appropriate
17 to ensure that the procedures, governance, and
18 funding of the Electric Reliability Organization
19 are just, reasonable, not unduly discriminatory
20 or preferential, and are in the public interest.

21 “(4) The Commission shall approve only one
22 Electric Reliability Organization. If the Commission
23 receives two or more timely applications that satisfy
24 the requirements of this subsection, the Commission

1 shall approve only the application it concludes will
2 best implement the provisions of this section.

3 “(e) ESTABLISHMENT OF AND MODIFICATIONS TO
4 ORGANIZATION STANDARDS.—

5 “(1) The Electric Reliability Organization shall
6 file with the Commission any new or modified orga-
7 nization standards, including any variances or entity
8 rules, and the Commission shall follow the proce-
9 dures under paragraph (2) for review of that filing.

10 “(2) Submissions under paragraph (1) shall
11 include—

12 “(A) a concise statement of the purpose of
13 the proposal, and

14 “(B) a record of any proceedings con-
15 ducted with respect to such proposal.

16 The Commission shall provide notice of the filing of
17 such proposal and afford interested entities 30 days
18 to submit comments. The Commission, after taking
19 into consideration any submitted comments, shall
20 approve or disapprove such proposal not later than
21 60 days after the deadline for the submission of
22 comments, except that the Commission may extend
23 the 60-day period for an additional 90 days for good
24 cause, and except further that if the Commission
25 does not act to approve or disapprove a proposal

1 within the foregoing periods, the proposal shall go
2 into effect subject to its terms, without prejudice to
3 the authority of the Commission thereafter to modify
4 the proposal in accordance with the standards and
5 requirements of this section. Proposals approved by
6 the Commission shall take effect according to their
7 terms but not earlier than 30 days after the effective
8 date of the Commission's order, except as provided
9 in paragraph (3) of this subsection.

10 “(3)(A) In the exercise of its review responsibil-
11 ities under this subsection, the Commission shall
12 give due weight to the technical expertise of the
13 Electric Reliability Organization with respect to the
14 content of a new or modified organization standard,
15 but shall not defer to the organization with respect
16 to the effect of the standard on competition. The
17 Commission shall approve a proposed new or modi-
18 fied organization standard if it determines the pro-
19 posal to be just, reasonable, not unduly discrimina-
20 tory or preferential, and in the public interest.

21 “(B) An existing or proposed organization
22 standard which is disapproved in whole or in part by
23 the Commission shall be remanded to the Electric
24 Reliability Organization for further consideration.

1 “(C) The Commission, on its own motion or
2 upon complaint, may direct the Electric Reliability
3 Organization to develop an organization standard,
4 including modification to an existing organization
5 standard, addressing a specific matter by a date cer-
6 tain if the Commission considers such new or modi-
7 fied organization standard necessary or appropriate
8 to further the purposes of this section. The Electric
9 Reliability Organization shall file any such new or
10 modified organization standard in accordance with
11 this subsection.

12 “(D) An affiliated regional reliability entity
13 may propose a variance or entity rule to the Electric
14 Reliability Organization. The affiliated regional reli-
15 ability entity may request that the Electric Reli-
16 ability Organization expedite consideration of the
17 proposal, and may file a notice of such request with
18 the Commission, if expedited consideration is nec-
19 essary to provide for bulk-power system reliability. If
20 the Electric Reliability Organization fails to adopt
21 the variance or entity rule, either in whole or in
22 part, the affiliated regional reliability entity may re-
23 quest that the Commission review such action. If the
24 Commission determines, after its review of such a
25 request, that the action of the Electric Reliability

1 Organization did not conform to the applicable
2 standards and procedures approved by the Commis-
3 sion, or if the Commission determines that the vari-
4 ance or entity rule is just, reasonable, not unduly
5 discriminatory or preferential, and in the public in-
6 terest, and that the Electric Reliability Organization
7 has unreasonably rejected the proposed variance or
8 entity rule, then the Commission may remand the
9 proposed variance or entity rule for further consider-
10 ation by the Electric Reliability Organization or may
11 direct the Electric Reliability Organization or the af-
12 filiated regional reliability entity to develop a vari-
13 ance or entity rule consistent with that requested by
14 the affiliated regional reliability entity. Any such
15 variance or entity rule proposed by an affiliated re-
16 gional reliability entity shall be submitted to the
17 Electric Reliability Organization for review and fil-
18 ing with the Commission in accordance with the pro-
19 cedures specified in this subsection.

20 “(E) Notwithstanding any other provision of
21 this subsection, a proposed organization standard or
22 amendment shall take effect according to its terms
23 if the Electric Reliability Organization determines
24 that an emergency exists requiring that such pro-
25 posed organization standard or amendment take ef-

1 fect without notice or comment. The Electric Reli-
2 ability Organization shall notify the Commission im-
3 mediately following such determination and shall file
4 such emergency organization standard or amend-
5 ment with the Commission not later than 5 days fol-
6 lowing such determination and shall include in such
7 filing an explanation of the need for such emergency
8 standard. Subsequently, the Commission shall pro-
9 vide notice of the organization standard or amend-
10 ment for comment, and shall follow the procedures
11 set out in paragraphs (2) and (3) for review of the
12 new or modified organization standard. Any such or-
13 ganization standard that has gone into effect shall
14 remain in effect unless and until suspended or dis-
15 approved by the Commission. If the Commission de-
16 termines at any time that the emergency organiza-
17 tion standard or amendment is not necessary, the
18 Commission may suspend such emergency organiza-
19 tion standard or amendment.

20 “(4) All users of the bulk power system shall
21 comply with any organization standard that takes ef-
22 fect under this section.

23 “(f) COORDINATION WITH CANADA AND MEXICO.—
24 The Electric Reliability Organization shall take all appro-
25 priate steps to gain recognition in Canada and Mexico.

1 The United States shall use its best efforts to enter into
2 international agreements with the appropriate govern-
3 ments of Canada and Mexico to provide for effective com-
4 pliance with organization standards and to provide for the
5 effectiveness of the Electric Reliability Organization in
6 carrying out its mission and responsibilities. All actions
7 taken by the Electric Reliability Organization, any affili-
8 ated regional entity, and the Commission shall be con-
9 sistent with the provisions of such international agree-
10 ments.

11 “(g) CHANGES IN PROCEDURES, GOVERNANCE, OR
12 FUNDING.—

13 “(1) The Electric Reliability Organization shall
14 file with the Commission any proposed change in its
15 procedures, governance, or funding, or any changes
16 in the affiliated regional reliability entity’s proce-
17 dures, governance, or funding relating to delegated
18 functions, and shall include with the filing an expla-
19 nation of the basis and purpose for the change.

20 “(2) A proposed procedural change may take
21 effect 90 days after filing with the Commission if
22 the change constitutes a statement of policy, prac-
23 tice, or interpretation with respect to the meaning or
24 enforcement of an existing procedure. Otherwise, a
25 proposed procedural change shall take effect only

1 upon a finding by the Commission, after notice and
2 opportunity for comments, that the change is just,
3 reasonable, not unduly discriminatory or pref-
4 erential, is in the public interest, and satisfies the
5 requirements of subsection (d)(4).

6 “(3) A change in governance or funding shall
7 not take effect unless the Commission finds that the
8 change is just, reasonable, not unduly discriminatory
9 or preferential, in the public interest, and satisfies
10 the requirements of subsection (d)(4).

11 “(4) The Commission, upon complaint or upon
12 its own motion, may require the Electric Reliability
13 Organization to amend the procedures, governance,
14 or funding if the Commission determines that the
15 amendment is necessary to meet the requirements of
16 this section. The Electric Reliability Organization
17 shall file the amendment in accordance with para-
18 graph (1) of this subsection.

19 “(h) DELEGATIONS OF AUTHORITY.—

20 “(1) The Electric Reliability Organization shall,
21 upon request by an entity, enter into an agreement
22 with such entity for the delegation of authority to
23 implement and enforce compliance with organization
24 standards in a specified geographic area if the orga-
25 nization finds that the entity requesting the delega-

1 tion satisfies the requirements of subparagraphs (A),
2 (B), (C), (D), (F), (J), and (K) of subsection (d)(4),
3 and if the delegation promotes the effective and effi-
4 cient implementation and administration of bulk
5 power system reliability. The Electric Reliability Or-
6 ganization may enter into an agreement to delegate
7 to the entity any other authority, except that the
8 Electric Reliability Organization shall reserve the
9 right to set and approve standards for bulk power
10 system reliability.

11 “(2) The Electric Reliability Organization shall
12 file with the Commission any agreement entered into
13 under this subsection and any information the Com-
14 mission requires with respect to the affiliated re-
15 gional reliability entity to which authority is to be
16 delegated. The Commission shall approve the agree-
17 ment, following public notice and an opportunity for
18 comment, if it finds that the agreement meets the
19 requirements of paragraph (1), and is just, reason-
20 able, not unduly discriminatory or preferential, and
21 is in the public interest. A proposed delegation
22 agreement with an affiliated regional reliability enti-
23 ty organized on an interconnection-wide basis shall
24 be rebuttably presumed by the Commission to pro-
25 mote the effective and efficient implementation and

1 administration of bulk power system reliability. No
2 delegation by the Electric Reliability Organization
3 shall be valid unless approved by the Commission.

4 “(3)(A) A delegation agreement entered into
5 under this subsection shall specify the procedures for
6 an affiliated regional reliability entity to propose en-
7 tity rules or variances for review by the Electric Re-
8 liability Organization. With respect to any such pro-
9 posal that would apply on an interconnection-wide
10 basis, the Electric Reliability Organization shall pre-
11 sume such proposal valid if made by an interconnec-
12 tion-wide affiliated regional reliability entity unless
13 the Electric Reliability Organization makes a written
14 finding that the proposal—

15 “(i) was not developed in a fair and open
16 process that provided an opportunity for all in-
17 terested parties to participate;

18 “(ii) has a significant adverse impact on
19 reliability or commerce in other interconnec-
20 tions;

21 “(iii) fails to provide a level of reliability of
22 the bulk-power system within the interconnec-
23 tion such that it would constitute a serious and
24 substantial threat to public health, safety, wel-
25 fare, or national security; or

1 “(iv) creates a serious and substantial bur-
2 den on competitive markets within the inter-
3 connection that is not necessary for reliability.

4 “(B) With respect to any such proposal that
5 would apply only to part of an interconnection, the
6 Electric Reliability Organization shall find such pro-
7 posal valid if the affiliated regional reliability entity
8 or entities making the proposal demonstrate that
9 it—

10 “(i) was developed in a fair and open proc-
11 ess that provided an opportunity for all inter-
12 ested parties to participate;

13 “(ii) would not have an adverse impact on
14 commerce that is not necessary for reliability;

15 “(iii) provides a level of bulk power system
16 reliability adequate to protect public health,
17 safety, welfare, and national security, and
18 would not have a significant adverse impact on
19 reliability; and

20 “(iv) in the case of a variance, is based on
21 legitimate differences between regions or be-
22 tween subregions within the affiliated regional
23 reliability entity’s geographic area.

24 The Electric Reliability Organization shall approve
25 or disapprove such proposal within 120 days, or the

1 proposal shall be deemed approved. Following ap-
2 proval of any such proposal under this paragraph,
3 the Electric Reliability Organization shall seek Com-
4 mission approval pursuant to the procedures pre-
5 scribed under subsection (e)(3). Affiliated regional
6 reliability entities may not make requests for ap-
7 proval directly to the Commission except pursuant to
8 subsection (e)(3)(D).

9 “(4) If an affiliated regional reliability entity
10 requests, consistent with paragraph (1) of this sub-
11 section, that the Electric Reliability Organization
12 delegate authority to it, but is unable within 180
13 days to reach agreement with the Electric Reliability
14 Organization with respect to such requested delega-
15 tion, such entity may seek relief from the Commis-
16 sion. If, following notice and opportunity for com-
17 ment, the Commission determines that a delegation
18 to the entity would meet the requirements of para-
19 graph (1) above, and that the delegation would be
20 just, reasonable, not unduly discriminatory or pref-
21 erential, and in the public interest, and that the
22 Electric Reliability Organization has unreasonably
23 withheld such delegation, the Commission may, by
24 order, direct the Electric Reliability Organization to
25 make such delegation.

1 “(5)(A) The Commission may, upon its own
2 motion or upon complaint, and with notice to the ap-
3 propriate affiliated regional reliability entity or enti-
4 ties, direct the Electric Reliability Organization to
5 propose a modification to an agreement entered into
6 under this subsection if the Commission determines
7 that—

8 “(i) the affiliated regional reliability entity
9 no longer has the capacity to carry out effec-
10 tively or efficiently its implementation or en-
11 forcement responsibilities under that agree-
12 ment, has failed to meet its obligations under
13 that agreement, or has violated any provision of
14 this section;

15 “(ii) the rules, practices, or procedures of
16 the affiliated regional reliability entity no longer
17 provide for fair and impartial discharge of its
18 implementation or enforcement responsibilities
19 under the agreement;

20 “(iii) the geographic boundary of a trans-
21 mission entity approved by the Commission is
22 not wholly within the boundary of an affiliated
23 regional reliability entity and such difference is
24 inconsistent with the effective and efficient im-

1 plementation and administration of bulk power
2 system reliability; or

3 “(iv) the agreement is inconsistent with
4 another delegation agreement as a result of ac-
5 tions taken under paragraph (4) of this sub-
6 section.

7 “(B) Following an order of the Commission
8 issued under subparagraph (A), the Commission
9 may suspend the affected agreement if the Electric
10 Reliability Organization or the affiliated regional re-
11 liability entity does not propose an appropriate and
12 timely modification. If the agreement is suspended,
13 the Electric Reliability Organization shall assume
14 the previously delegated responsibilities. The Com-
15 mission shall allow the Electric Reliability Organiza-
16 tion and the affiliated regional reliability entity an
17 opportunity to appeal the suspension.

18 “(i) ORGANIZATION MEMBERSHIP.—Every system
19 operator shall be required to be a member of the Electric
20 Reliability Organization and shall be required also to be
21 a member of any affiliated regional reliability entity oper-
22 ating under an agreement effective pursuant to subsection
23 (h) applicable to the region in which the system operates
24 or is responsible for the operation of bulk power system
25 facilities.

1 “(j) INJUNCTIONS AND DISCIPLINARY ACTIONS.—

2 “(1) Consistent with the range of actions ap-
3 proved by the Commission under subsection
4 (d)(4)(H), the Electric Reliability Organization may
5 impose a penalty, limitation of activities, functions,
6 operations, or other disciplinary action the Electric
7 Reliability Organization finds appropriate against a
8 user of the bulk power system if the Electric Reli-
9 ability Organization, after notice and an opportunity
10 for interested parties to be heard, issues a finding
11 in writing that the user of the bulk-power system
12 has violated an organization standard. The Electric
13 Reliability Organization shall immediately notify the
14 Commission of any disciplinary action imposed with
15 respect to an act or failure to act of a user of the
16 bulk-power system that affected or threatened to af-
17 fect bulk power system facilities located in the
18 United States, and the sanctioned party shall have
19 the right to seek modification or rescission of such
20 disciplinary action by the Commission. If the organi-
21 zation finds it necessary to prevent a serious threat
22 to reliability, the organization may seek injunctive
23 relief in a Federal court in the district in which the
24 affected facilities are located.

1 “(2) A disciplinary action taken under para-
2 graph (1) may take effect not earlier than the 30th
3 day after the Electric Reliability Organization files
4 with the Commission its written finding and record
5 of proceedings before the Electric Reliability Organi-
6 zation and the Commission posts its written finding,
7 unless the Commission, on its own motion or upon
8 application by the user of the bulk power system
9 which is the subject of the action, suspends the ac-
10 tion. The action shall remain in effect or remain sus-
11 pended unless and until the Commission, after notice
12 and opportunity for hearing, affirms, sets aside,
13 modifies, or reinstates the action, but the Commis-
14 sion shall conduct such hearing under procedures es-
15 tablished to ensure expedited consideration of the
16 action taken.

17 “(3) The Commission, on its own motion or on
18 complaint, may order compliance with an organiza-
19 tion standard and may impose a penalty, limitation
20 of activities, functions, or operations, or take such
21 other disciplinary action as the Commission finds
22 appropriate, against a user of the bulk power system
23 with respect to actions affecting or threatening to
24 affect bulk power system facilities located in the
25 United States if the Commission finds, after notice

1 and opportunity for a hearing, that the user of the
2 bulk power system has violated or threatens to vio-
3 late an organization standard.

4 “(4) The Commission may take such action as
5 is necessary against the Electric Reliability Organi-
6 zation or an affiliated regional reliability entity to
7 assure compliance with an organization standard, or
8 any Commission order affecting the Electric Reli-
9 ability Organization or an affiliated regional reli-
10 ability entity.

11 “(k) RELIABILITY REPORTS.—The Electric Reli-
12 ability Organization shall conduct periodic assessments of
13 the reliability and adequacy of the interconnected bulk
14 power system in North America and shall report annually
15 to the Secretary of Energy and the Commission its find-
16 ings and recommendations for monitoring or improving
17 system reliability and adequacy.

18 “(l) ASSESSMENT AND RECOVERY OF CERTAIN
19 COSTS.—The reasonable costs of the Electric Reliability
20 Organization, and the reasonable costs of each affiliated
21 regional reliability entity that are related to implementa-
22 tion and enforcement of organization standards or other
23 requirements contained in a delegation agreement ap-
24 proved under subsection (h), shall be assessed by the Elec-
25 tric Reliability Organization and each affiliated regional

1 reliability entity, respectively, taking into account the rela-
2 tionship of costs to each region and based on an allocation
3 that reflects an equitable sharing of the costs among all
4 end users. The Commission shall provide by rule for the
5 review of such costs and allocations, pursuant to the
6 standards in this subsection and subsection (d)(4)(F).

7 “(m) SAVINGS PROVISIONS.—

8 “(1) The Electric Reliability Organization shall
9 have authority to develop, implement and enforce
10 compliance with standards for the reliable operation
11 of only the bulk power system.

12 “(2) This section does not provide the Electric
13 Reliability Organization or the Commission with the
14 authority to set and enforce compliance with stand-
15 ards for adequacy or safety of electric facilities or
16 services.

17 “(3) Nothing in this section shall be construed
18 to preempt any authority of any State to take action
19 to ensure the safety, adequacy, and reliability of
20 electric service within that State, as long as such ac-
21 tion is not inconsistent with any Organization
22 Standard.

23 “(4) Within 90 days of the application of the
24 Electric Reliability Organization or other affected
25 party, the Commission shall issue a final order de-

1 termining whether a State action is inconsistent with
2 an Organization Standard, after notice and oppor-
3 tunity for comment, taking into consideration any
4 recommendations of the Electric Reliability Organi-
5 zation.

6 “(5) The Commission, after consultation with
7 the Electric Reliability Organization, may stay the
8 effectiveness of any State action, pending the Com-
9 mission’s issuance of a final order.

10 “(n) REGIONAL ADVISORY BODIES.—The Commis-
11 sion shall establish a regional advisory body on the petition
12 of at least two-thirds of the States within a region that
13 have more than one-half of their electric load served within
14 the region. A regional advisory body shall be composed of
15 one member from each participating State in the region,
16 appointed by the Governor of each State, and may include
17 representatives of agencies, States, and provinces outside
18 the United States, upon execution of an international
19 agreement or agreements described in subsection (f). A
20 regional advisory body may provide advice to the electric
21 reliability organization, an affiliated regional reliability en-
22 tity, or the Commission regarding the governance of an
23 existing or proposed affiliated regional reliability entity
24 within the same region, whether an organization standard,
25 entity rule, or variance proposed to apply within the region

1 is just, reasonable, not unduly discriminatory or pref-
 2 erential, and in the public interest, and whether fees pro-
 3 posed to be assessed within the region are just, reasonable,
 4 not unduly discriminatory or preferential, in the public in-
 5 terest, and consistent with the requirements of subsection
 6 (1). The Commission may give deference to the advice of
 7 any such regional advisory body if that body is organized
 8 on an interconnection-wide basis.

9 “(o) COORDINATION WITH REGIONAL TRANSMISSION
 10 ORGANIZATIONS.—

11 “(1) Each regional transmission organization
 12 authorized by the Commission shall be responsible
 13 for maintaining the short-term reliability of the bulk
 14 power system that it operates, consistent with orga-
 15 nization standards.

16 “(2) Except as provided in paragraph (5), in
 17 connection with a proceeding under subsection (e) to
 18 consider a proposed organization standard, each re-
 19 gional transmission organization authorized by the
 20 Commission shall report to the Commission, and no-
 21 tify the electric reliability organization and any ap-
 22 plicable affiliated regional reliability entity, regard-
 23 ing whether the proposed organization standard
 24 hinders or conflicts with that regional transmission
 25 organization’s ability to fulfill the requirements of

1 any rule, regulation, order, tariff, rate schedule, or
2 agreement accepted, approved or ordered by the
3 Commission. Where such hindrance or conflict is
4 identified, the Commission shall address such hin-
5 drance or conflict, and the need for any changes to
6 such rule, order, tariff, rate schedule, or agreement
7 accepted, approved or ordered by the Commission in
8 its order under subsection (e) regarding the pro-
9 posed standard. Where such hindrance or conflict is
10 identified between a proposed organization standard
11 and a provision of any rule, order, tariff, rate sched-
12 ule or agreement accepted, approved or ordered by
13 the Commission applicable to a regional trans-
14 mission organization, nothing in this section shall re-
15 quire a change in the regional transmission organi-
16 zation's obligation to comply with such provision un-
17 less the Commission orders such a change and the
18 change becomes effective. If the Commission finds
19 that the tariff, rate schedule, or agreement needs to
20 be changed, the regional transmission organization
21 must expeditiously make a section 205 filing to re-
22 flect the change. If the Commission finds that the
23 proposed organization standard needs to be changed,
24 it shall remand the proposed organization standard

1 to the electric reliability organization under sub-
2 section (e)(3)(B).

3 “(3) Except as provided in paragraph (5), to
4 the extent hindrances and conflicts arise after ap-
5 proval of a reliability standard under subsection (c)
6 or organization standard under subsection (e), each
7 regional transmission organization authorized by the
8 Commission shall report to the Commission, and no-
9 tify the electric reliability organization and any ap-
10 plicable affiliated regional reliability entity, regard-
11 ing any reliability standard approved under sub-
12 section (c) or organization standard that hinders or
13 conflicts with that regional transmission organiza-
14 tion’s ability to fulfill the requirements of any rule,
15 regulation, order, tariff, rate schedule, or agreement
16 accepted, approved or ordered by the Commission.
17 The Commission shall seek to assure that such hin-
18 drances or conflicts are resolved promptly. Where a
19 hindrance or conflict is identified between a reli-
20 ability standard or an organization standard and a
21 provision of any rule, order, tariff, rate schedule or
22 agreement accepted, approved or ordered by the
23 Commission applicable to a regional reliability orga-
24 nization, nothing in this section shall require a
25 change in the regional transmission organization’s

1 obligation to comply with such provision unless the
2 Commission orders such a change and the change
3 becomes effective. If the Commission finds that the
4 tariff, rate schedule or agreement needs to be
5 changed, the regional transmission organization
6 must expeditiously make a section 205 filing to re-
7 flect the change. If the Commission finds that an or-
8 ganization standard needs to be changed, it shall
9 order the electric reliability organization to develop
10 and submit a modified organization standard under
11 subsection (e)(3)(C).

12 “(4) An affiliated regional reliability entity and
13 a regional transmission organization operating in the
14 same geographic area shall cooperate to avoid con-
15 flicts between implementation and enforcement of
16 organization standards by the affiliated regional reli-
17 ability entity and implementation and enforcement
18 by the regional transmission organization of tariffs,
19 rate schedules, and agreements accepted, approved
20 or ordered by the Commission. In areas without an
21 affiliated regional reliability entity, the electric reli-
22 ability organization shall act as the affiliated re-
23 gional reliability entity for purposes of this para-
24 graph.

1 “(5) Until 6 months after approval of applica-
 2 ble subsection (h)(3) procedures, any reliability
 3 standard, guidance, or practice contained in Com-
 4 mission-accepted tariffs, rate schedules, or agree-
 5 ments in effect of any Commission-authorized inde-
 6 pendent system operator or regional transmission or-
 7 ganization shall continue to apply unless the Com-
 8 mission accepts an amendment thereto by the appli-
 9 cable operator or organization, or upon complaint
 10 finds them to be unjust, unreasonable, unduly dis-
 11 crimatory or preferential, or not in the public in-
 12 terest. At the conclusion of such transition period,
 13 any such reliability standard, guidance, practice, or
 14 amendment thereto that the Commission determines
 15 is inconsistent with organization standards shall no
 16 longer apply.”.

17 (b) ENFORCEMENT.—Sections 316 and 316A of the
 18 Federal Power Act are each amended by striking “or 214”
 19 each place it appears and inserting “214, or 216”.

20 **SEC. 402. APPLICATION OF ANTITRUST LAWS.**

21 Notwithstanding any other provision of law, each of
 22 the following activities are rebuttably presumed to be in
 23 compliance with the antitrust laws of the United States:

24 (1) Activities undertaken by the Electric Reli-
 25 ability Organization under section 216 of the Fed-

1 eral Power Act or affiliated regional reliability entity
 2 operating under an agreement in effect under sec-
 3 tion 216(h) of such Act.

4 (2) Activities of a member of the Electric Reli-
 5 ability Organization or affiliated regional reliability
 6 entity in pursuit of organization objectives under
 7 section 216 of the Federal Power Act undertaken in
 8 good faith under the rules of the organization.

9 Primary jurisdiction, and immunities and other affirma-
 10 tive defenses, shall be available to the extent otherwise ap-
 11 plicable.

12 **TITLE V—IMPROVED** 13 **ELECTRICITY CAPACITY** 14 **AND ACCESS**

15 **SEC. 501. UNIVERSAL AND AFFORDABLE SERVICE.**

16 It is the sense of the Congress that—

17 (1) every retail electric consumer should have
 18 access to electric energy at reasonable and afford-
 19 able rates; and

20 (2) the States should ensure that retail electric
 21 competition does not result in the loss of service to
 22 rural, residential, or low-income consumers.

23 **SEC. 502. PUBLIC BENEFITS FUND.**

24 (a) DEFINITIONS.—For purposes of this section—

1 (1) the term “eligible public purpose program”
2 means a State or tribal program that—

3 (A) assists low-income households in meet-
4 ing their home energy needs;

5 (B) provides for the planning, construc-
6 tion, or improvement of facilities to generate,
7 transmit, or distribute electricity to Indian
8 tribes or rural and remote communities;

9 (C) provides for the development and im-
10 plementation of measures to reduce the demand
11 for electricity;

12 (D) provides for the development and im-
13 plementation of a qualifying greenhouse gas
14 mitigation project; or

15 (E) provides for—

16 (i) new or additional capacity, or im-
17 proves the efficiency of existing capacity,
18 from a wind, biomass, geothermal, solar
19 thermal, photovoltaic, combined heat and
20 power energy source, or

21 (ii) additional generating capacity
22 achieved from increased efficiency at exist-
23 ing hydroelectric dams or additions of new
24 capacity at existing hydroelectric dams;

1 (2) the term “fiscal agent” means the entity
2 designated under subsection (c);

3 (3) the term “Fund” means the Public Benefits
4 Fund established under subsection (b);

5 (4) the term “qualifying greenhouse gas mitiga-
6 tion project” means a project to reduce the emis-
7 sions of greenhouse gases that is at least fifty per-
8 cent cofunded by a power generator;

9 (5) the term “Indian tribe” means any Indian
10 tribe, band, nation, or other organized group or com-
11 munity, including any Alaska Native village or re-
12 gional or village corporation as defined in or estab-
13 lished pursuant to the Alaska Native Claims Settle-
14 ment Act (43 U.S.C. 1601 et seq.), which is recog-
15 nized as eligible for the special programs and serv-
16 ices provided by the United States to Indians be-
17 cause of their status as Indians;

18 (6) the term “Secretary” means the Secretary
19 of Energy; and

20 (7) the term “State” means each of the States
21 and the District of Columbia.

22 (b) PUBLIC BENEFITS FUND.—There is established
23 in the Treasury of the United States a separate fund, to
24 be known as the Public Benefits Fund. The Fund shall
25 consist of amounts collected by the fiscal agent under sub-

1 section (e). The fiscal agent may disburse amounts in the
 2 Fund, without further appropriation, in accordance with
 3 this section.

4 (c) DUTIES OF THE FISCAL AGENT.—The Secretary
 5 shall appoint a fiscal agent who shall collect and disburse
 6 the amounts in the Fund in accordance with this section.

7 (d) DUTIES OF THE SECRETARY.—The Secretary
 8 shall prescribe—

9 (1) rules for the equitable allocation of the
 10 Fund among States and Indian tribes based upon—

11 (A) the number of low-income households
 12 in such State or tribal jurisdiction; and

13 (B) the average annual cost of electricity
 14 used by households in such State or tribal juris-
 15 diction;

16 (2) the criteria by which the fiscal agent deter-
 17 mines whether a State or tribal government’s pro-
 18 gram is an eligible public purpose program; and

19 (3) rules governing the award of funds for
 20 qualifying greenhouse gas mitigation projects that
 21 the Secretary determines are necessary to ensure
 22 such projects are cost-effective.

23 (e) PUBLIC BENEFITS CHARGE.—

24 (1) AMOUNT OF CHARGE.—As a condition of
 25 existing or future interconnection with facilities of

1 any transmitting utility, each owner of an electric
2 generating facility whose nameplate capacity exceeds
3 five megawatts shall pay the transmitting utility a
4 public benefits charge equal to one mill per kilowatt-
5 hour on electric energy generated by such electric
6 generating facility.

7 (2) AFFILIATES.—Each owner of an electric
8 generating facility subject to the charge under para-
9 graph (1) shall pay the charge even if the generation
10 facility and the transmitting facility are under com-
11 mon ownership or are otherwise affiliated.

12 (3) IMPORTED ELECTRICITY.—Each importer
13 of electric energy from Canada or Mexico, as a con-
14 dition of existing or future interconnection with fa-
15 cilities of any transmitting utility in the United
16 States, shall pay this same charge for imported elec-
17 tric energy.

18 (4) PAYMENT OF THE CHARGE.—The transmit-
19 ting utility shall pay the amounts collected to the
20 fiscal agent at the close of each month, and the fis-
21 cal agent shall deposit the amounts into the Fund
22 as offsetting collections.

23 (f) DISBURSAL FROM THE FUND.—

24 (1) BLOCK GRANTS.—The fiscal agent shall dis-
25 burse amounts in the Fund to participating States

1 and tribal governments as a block grant to carry out
2 eligible public purpose programs in accordance with
3 this subsection and rules prescribed under sub-
4 section (d).

5 (2) ANNUAL PAYMENTS.—The fiscal agent shall
6 disburse amounts for a calendar year from the Fund
7 to a State or tribal government in twelve equal
8 monthly payments beginning two months after the
9 beginning of the calendar year.

10 (3) ELIGIBLE RECIPIENTS.—The fiscal agent
11 shall make distributions to the State or tribal gov-
12 ernment or to an entity designated by the State or
13 tribal government to receive payments.

14 (4) LIMITATION ON USE OF FUNDS.—A State
15 or tribal government may use amounts received only
16 for the eligible public purpose programs the State or
17 tribal government designated in its submission to
18 the fiscal agent and the fiscal agent determined eli-
19 gible.

20 (g) REPORT.—One year before the date of expiration
21 of this section, the Secretary shall report to Congress
22 whether a public benefits fund should continue to exist.

23 (h) SUNSET.—This section expires at midnight on
24 December 31, 2015.

1 **SEC. 503. RURAL CONSTRUCTION GRANTS.**

2 Section 313 of the Rural Electrification Act of 1936
3 (7 U.S.C. 940c) is amended by adding after subsection
4 (b) the following:

5 “(c) RURAL AND REMOTE COMMUNITIES ELEC-
6 TRIFICATION GRANTS.—The Secretary of Agriculture, in
7 consultation with the Secretary of Energy and the Sec-
8 retary of the Interior, may provide grants to eligible bor-
9 rowers under this Act for the purpose of increasing energy
10 efficiency, siting or upgrading transmission and distribu-
11 tion lines, or providing or modernizing electric facilities
12 for—

13 “(1) a unit of local government of a State or
14 territory; or

15 “(2) an Indian tribe.

16 “(d) GRANT CRITERIA.—The Secretary shall make
17 grants based on a determination of cost-effectiveness and
18 most effective use of the funds to achieve the stated pur-
19 poses of this section.

20 “(e) PREFERENCE.—In making grants under this
21 section, the Secretary shall give a preference to renewable
22 energy facilities.

23 “(f) DEFINITION.—For purposes of this section, the
24 term ‘Indian tribe’ means any Indian tribe, band, nation,
25 or other organized group or community, including any
26 Alaska Native village or regional or village corporation as

1 defined in or established pursuant to the Alaska Native
 2 Claims Settlement Act (43 U.S.C. 1601 et seq.), which
 3 is recognized as eligible for the special programs and serv-
 4 ices provided by the United States to Indians because of
 5 their status as Indians.

6 “(g) AUTHORIZATION.—There is authorized to be ap-
 7 propriated for purposes of subsection (c) \$20,000,000 for
 8 each of the seven fiscal years following the date of enact-
 9 ment of this section.”.

10 **SEC. 504. COMPREHENSIVE INDIAN ENERGY PROGRAM.**

11 (a) ESTABLISHMENT OF PROGRAM.—Title XXVI of
 12 the Energy Policy Act of 1992 (25 U.S.C. 3501–3506)
 13 is amended by adding after section 2606 the following:

14 **“SEC. 2607. COMPREHENSIVE INDIAN ENERGY PROGRAM.**

15 “(a) DEFINITIONS.—For purposes of this section—

16 “(1) ‘Director’ means the Director of the Office
 17 of Indian Energy Policy and Programs established
 18 by section 217 of the Department of Energy Organi-
 19 zation Act, and

20 “(2) ‘Indian land’ means—

21 “(A) any land within the limits of an In-
 22 dian reservation, pueblo, or ranchera;

23 “(B) any land not within the limits of an
 24 Indian reservation, pueblo, or ranchera whose

1 title on the date of enactment of this section
 2 was held—

3 “(i) in trust by the United States for
 4 the benefit of an Indian tribe,

5 “(ii) by an Indian tribe subject to re-
 6 striction by the United States against
 7 alienation, or

8 “(iii) by a dependent Indian commu-
 9 nity; and

10 “(C) land conveyed to an Alaska Native
 11 Corporation under the Alaska Native Claims
 12 Settlement Act.

13 “(b) INDIAN ENERGY EDUCATION, PLANNING AND
 14 MANAGEMENT ASSISTANCE.—(1) The Director shall es-
 15 tablish programs within the Office of Indian Energy Pol-
 16 icy and Programs to assist Indian tribes to meet their en-
 17 ergy education, research and development, planning, and
 18 management needs.

19 “(2) The Director may make grants, on a competitive
 20 basis, to an Indian tribe for—

21 “(A) renewable, energy efficiency, and conserva-
 22 tion programs;

23 “(B) studies and other activities supporting
 24 tribal acquisition of energy supplies, services, and fa-
 25 cilities; and

1 “(C) planning, constructing, developing, oper-
2 ating, maintaining, and improving tribal electrical
3 generation, transmission, and distribution facilities.

4 “(3) The Director may develop, in consultation with
5 Indian tribes, a formula for making grants under this sec-
6 tion. The formula may take into account the following—

7 “(A) total number of acres of Indian land
8 owned by an Indian tribe;

9 “(B) total number of households on the tribe’s
10 Indian land;

11 “(C) total number of households on the Indian
12 tribe’s Indian land that have no electricity service or
13 are underserved; and

14 “(D) financial or other assets available to the
15 tribe from any source.

16 “(4) In making a grant under paragraph (2)(E), the
17 Director shall give priority to an application received from
18 an Indian tribe that is not served or is served inadequately
19 by an electric utility, as that term is defined in section
20 3(4) of the Public Utility Regulatory Policies Act of 1978
21 (16 U.S.C. 2602(4)), or by a person, State agency, or any
22 other non-federal entity that owns or operates a local dis-
23 tribution facility used for the sale of electric energy to an
24 electric consumer.

1 “(5) There are authorized to be appropriated to the
2 Department of Energy such sums as may be necessary to
3 carry out the purposes of this section.

4 “(c) APPLICATION OF BUY INDIAN ACT.—(1) An
5 agency or department of the United States Government
6 may give, in the purchase and sale of electricity, oil, gas,
7 coal, or other energy product or by-product produced, con-
8 verted, or transferred on Indian lands, preference, under
9 section 23 of the Act of June 25, 1910 (25 U.S.C. 47)
10 (commonly known as the “Buy Indian Act”), to an energy
11 and resource production enterprise, partnership, corpora-
12 tion, or other type of business organization majority or
13 wholly owned and controlled by an Indian, a tribal govern-
14 ment, or a business, enterprise, or operation of the Amer-
15 ican Indian Tribal Governments.

16 “(2) In implementing this subsection, an agency or
17 department shall pay no more for energy production than
18 the prevailing market price and shall obtain no less than
19 existing market terms and conditions.

20 “(d) EFFECT ON OTHER LAWS.—This section does
21 not—

22 “(1) limit the discretion vested in an Adminis-
23 trator of a Federal power marketing agency to mar-
24 ket and allocate Federal power, or

1 “(2) alter Federal laws under which a Federal
2 power marketing agency markets, allocates, or pur-
3 chases power.”.

(b) OFFICE OF INDIAN POLICY AND PROGRAMS.—
Title II of the Department of Energy Organization Act
is amended by adding at the end the following:

7 “OFFICE OF INDIAN ENERGY POLICY AND
8 PROGRAMS.

9 “SEC. 217. (a) There is established within the De-
10 partment an Office of Indian Energy Policy and Programs.
11 This Office shall be headed by a Director, who shall be
12 appointed by the Secretary and compensated at the rate
13 equal to that of level IV of the Executive Schedule under
14 section 5315 of Title 5, United States Code. The Director
15 shall perform the duties assigned the Director under the
16 Comprehensive Indian Energy Act and this section.

“(b) The Director shall provide, direct, foster, coordinate, and implement energy planning, education, management, conservation, and delivery programs of the Department that—

21 “(1) promote tribal energy efficiency and utili-
22 zation;

“(2) modernize and develop, for the benefit of Indian tribes, tribal energy and economic infrastructure related to natural resource development and electrification;

1 “(3) preserve and promote tribal sovereignty
2 and self determination related to energy matters and
3 energy deregulation;

4 “(4) lower or stabilize energy costs; and

5 “(5) electrify tribal members’ homes and tribal
6 lands.

7 “(c) The Director shall carry out the duties assigned
8 the Secretary under title XXVI of the Energy Policy Act
9 of 1992 (25 U.S.C. 3501 et seq.).”.

10 (c) CONFORMING AMENDMENTS.—

11 (1) Section 2603(c) of the Energy Policy Act of
12 1992 (25 U.S.C. 3503(c)) is amended to read as fol-
13 lows:

14 “(c) There are authorized to be appropriated such
15 sums as may be necessary to carry out the purposes of
16 this section.”

17 (2) The table of contents of the Department of
18 Energy Act is amended by inserting after the item
19 relating to section 216 the following new item:

“217. Office of Indian Energy Policy and Programs.”.

20 (3) Section 5315 of title 5, United States Code,
21 is amended by inserting “Director, Office of Indian
22 Energy Policy and Programs, Department of En-
23 ergy.” after “Director, Office of Science, Depart-
24 ment of Energy.”.

1 **SEC. 505. ENVIRONMENTAL DISCLOSURE TO CONSUMERS.**

2 (a) RETAIL SALES.—The Federal Trade Commission
3 shall issue rules requiring each retail electric supplier to
4 include with each monthly billing to retail electric con-
5 sumers a statement of the known energy sources used to
6 generate the electricity the supplier distributes, on an an-
7 nual basis, stated in numbers of kilowatt-hours, both in
8 percentages and in the form of a pie chart, of biomass
9 power, coal-fired power, hydropower, natural gas-fired
10 power, nuclear power, oil-fired power, wind power, geo-
11 thermal power, solar thermal power, photovoltaic power,
12 combined heat and power, and other sources of power, re-
13 spectively.

14 (b) WHOLESALE SALES.—The Federal Trade Com-
15 mission shall issue rules requiring any electric supplier
16 that sells or makes an offer to sell electric energy at whole-
17 sale to provide the purchaser or offeree such known infor-
18 mation about the energy source used to generate the elec-
19 tricity, on an annual basis, as the Commission may deter-
20 mine.

21 (c) CERTIFICATION PROGRAM.—The Secretary of
22 Energy, in consultation with the Federal Trade Commis-
23 sion, shall develop a certification program for each retail
24 electric supplier that sells electric energy, at least 50 per-
25 cent of which, averaged over a year, is generated from re-
26 newable energy sources. For purposes of this subsection,

1 the term “renewable energy source” means biomass, wind
2 power, geothermal power, solar thermal power, or photo-
3 voltaic power.

4 **SEC. 506. CONSUMER PROTECTIONS.**

5 (a) INFORMATION DISCLOSURE.—The Federal Trade
6 Commission shall issue rules requiring any retail electric
7 supplier that sells or makes an offer to sell electric energy,
8 or solicits retail electric consumers to purchase electric en-
9 ergy, to provide the retail electric consumers, in addition
10 to the information required under section 505, a state-
11 ment containing the following information:

12 (1) The nature of the service being offered, in-
13 cluding information about interruptibility of service.

14 (2) The price of electric energy, including a de-
15 scription of any variable charges.

16 (3) A description of all other charges that are
17 associated with the service being offered, including
18 access charges, exit charges, back-up service
19 charges, stranded cost recovery charges, and cus-
20 tomer service charges.

21 (4) Information concerning the product or price
22 that the Federal Trade Commission determines is
23 technologically and economically feasible to provide
24 and is of assistance to retail electric consumers in
25 making purchasing decisions.

1 (b) CONSUMER PRIVACY.—

2 (1) PROHIBITION.—The Federal Trade Com-
3 mission shall issue rules prohibiting any person who
4 obtains consumer information in connection with the
5 sale or delivery of electric energy to a retail electric
6 consumer from using, disclosing, or permitting ac-
7 cess to such information unless the consumer to
8 whom such information relates provides prior writ-
9 ten approval.

10 (2) PERMITTED USE.—The rules issued under
11 this subsection shall not prohibit any person from
12 using, disclosing, or permitting access to consumer
13 information referred to in paragraph (1) for any of
14 the following purposes:

15 (A) To facilitate a retail electric con-
16 sumer's change in selection of a retail electric
17 supplier under procedures approved by the
18 State or State commission.

19 (B) To initiate, render, bill, or collect for
20 the sale or delivery of electric energy to retail
21 electric consumers or for related services.

22 (C) To protect the rights or property of
23 the person obtaining such information.

24 (D) To protect retail electric consumers
25 from fraud, abuse, and unlawful subscription in

1 the sale or delivery of electric energy to such
2 consumers.

3 (E) For law enforcement purposes.

4 (F) For purposes of compliance with any
5 Federal, State, or local law or regulation au-
6 thorizing disclosure of information to a Federal,
7 State, or local agency.

8 (3) AGGREGATE CONSUMER INFORMATION.—

9 The rules issued under this subsection shall permit
10 any person to use, disclose, and permit access to ag-
11 gregate consumer information and shall require local
12 distribution companies to make such information
13 available to retail electric suppliers upon request and
14 payment of a reasonable fee.

15 (4) DEFINITIONS.—As used in this section:

16 (A) The term “aggregate consumer infor-
17 mation” means collective data that relates to a
18 group or category of retail electric consumers,
19 from which individual consumer identities and
20 characteristics have been removed.

21 (B) The term “consumer information”
22 means information that relates to the quantity,
23 technical configuration, type, destination, or
24 amount of use of electric energy delivered to
25 any retail electric consumer.

1 (C) The term “State commission” has the
2 meaning given such term in section 3(15) of the
3 Federal Power Act (16 U.S.C. 796(15)).

4 (c) UNFAIR TRADE PRACTICES.—

5 (1) SLAMMING.—The Federal Trade Commis-
6 sion shall issue rules prohibiting the change of selec-
7 tion of a retail electric supplier except with the in-
8 formed consent of the retail electric consumer.

9 (2) CRAMMING.—The Federal Trade Commis-
10 sion shall issue rules prohibiting the sale of goods
11 and services to a retail electric consumer unless ex-
12 pressly authorized by law or the retail electric con-
13 sumer.

14 (d) FEDERAL TRADE COMMISSION ENFORCE-
15 MENT.—Violation of a rule issued under this section shall
16 be treated as a violation of a rule under section 18 of the
17 Federal Trade Commission Act (15 U.S.C. 57a). All func-
18 tions and powers of the Federal Trade Commission under
19 such Act are available to the Federal Trade Commission
20 to enforce compliance with this section notwithstanding
21 any jurisdictional limits in such Act.

22 (e) STATE AUTHORITY.—(1) This section does not
23 preclude a State or State commission from prescribing and
24 enforcing additional laws, rules, or procedures regarding
25 the practices which are the subject of this section, so long

1 as such laws, rules, or procedures are not inconsistent with
 2 the provisions of this section or with any rule prescribed
 3 by the Federal Trade Commission pursuant to it.

4 (2) The remedies provided by this section are in addi-
 5 tion to any other remedies available by law.

6 (f) DEFINITIONS.—As used in this section—

7 (1) the term “retail electric consumer” means
 8 any person who purchases electric energy for ulti-
 9 mate consumption;

10 (2) the term “retail electric supplier” means
 11 any person who sells electric energy to a retail elec-
 12 tric consumer for ultimate consumption; and

13 (3) the term “State commission” has the mean-
 14 ing given such term in section 3(15) of the Federal
 15 Power Act (16 U.S.C. 796(15)).

16 **SEC. 507. WHOLESALE ELECTRICITY MARKET DATA.**

17 Section 213 of the Federal Power Act (16 U.S.C.
 18 824l) is amended by adding at the end the following:

19 “(c) WHOLESALE ELECTRICITY MARKET DATA.—

20 “(1) Not later than 180 days after the date of
 21 the enactment of this subsection, the Commission
 22 shall, by rule, establish an information system that
 23 gives persons who buy electric energy for resale,
 24 State regulatory authorities, and the public access to
 25 current information about—

1 “(A) the availability of electric energy gen-
 2 erating capacity and known generating con-
 3 straints, and

4 “(B) the availability of transmission capac-
 5 ity and known transmission constraints.

6 “(2) The rule shall require—

7 “(A) each electric utility and each Federal
 8 power marketing administration that owns, op-
 9 erates, or controls facilities used for the genera-
 10 tion or transmission of electric energy sold or
 11 transmitted in interstate commerce to report,
 12 by unit, on a real-time basis—

13 “(i) the total number of megawatts
 14 (as a 60 second average) produced by each
 15 generating facility it owns, operates, or
 16 controls, and

17 “(ii) the total number of megawatts of
 18 capacity at each facility it owns, operates,
 19 or controls that is not being used to gen-
 20 erate electric power; and

21 “(B) each transmitting utility to report, on
 22 a real-time basis—

23 “(i) the total number of megawatts
 24 transmitted on each transmission facility it
 25 owns, operates, or controls, and

1 “(ii) the total number of megawatts
 2 scheduled and the current capacity or rat-
 3 ing of each transmission facility it owns,
 4 operates, or controls.

5 “(3) The Commission may enter agreements
 6 with regional electric reliability councils to collect,
 7 retain, and make available to persons who buy elec-
 8 tric energy for resale, state regulatory authorities,
 9 and the public the information required to be sub-
 10 mitted by the rule.”.

11 **SEC. 508. WHOLESALE ELECTRIC ENERGY RATES IN THE**
 12 **WESTERN ENERGY MARKET.**

13 (a) IMPOSITION OF WHOLESALE ELECTRIC ENERGY
 14 RATES.—Not later than 60 days after the date of enact-
 15 ment of this title, the Federal Energy Regulatory Commis-
 16 sion shall impose just and reasonable load-differentiated
 17 demand rates or cost-of-service based rates on sales by
 18 electric utilities of electric energy at wholesale in the west-
 19 ern energy market.

20 (b) LIMITATIONS.—

21 (1) IN GENERAL.—A load-differentiated de-
 22 mand rate or cost-of-service based rate shall not
 23 apply to a sale of electric energy at wholesale for de-
 24 livery in a State that—

1 (A) prohibits electric utilities from passing
2 through to retail consumers wholesale rates ap-
3 proved by the Commission; or

4 (B) imposes a price limit on the sale of
5 electric energy at retail that—

6 (i) precludes an electric utility from
7 recovering all of the costs incurred by the
8 electric utility in purchasing electric en-
9 ergy; or

10 (ii) has precluded an electric utility
11 (or any entity that is authorized to pur-
12 chase electricity on behalf of an electric
13 utility or a State) from making a payment
14 when due to any entity within the western
15 energy market from which the electric util-
16 ity purchased electric energy, and the de-
17 fault has not been cured.

18 (2) NO ORDERS TO SELL WITHOUT GUARANTEE
19 OF PAYMENT.—Notwithstanding section 302 of the
20 Natural Gas Policy Act of 1978 (15 U.S.C. 3362),
21 section 202(c) of the Federal Power Act (16 U.S.C.
22 824a(c)), or section 101 of the Defense Production
23 Act of 1950 (50 U.S.C. App. 2071), neither the
24 President, the Secretary of Energy, nor the Commis-
25 sion may issue an order that requires a seller of

1 electric energy or natural gas to sell, on or after the
 2 date of enactment of this title, electric energy or
 3 natural gas to a purchaser in a State described in
 4 paragraph (1) unless there is a guarantee that, in
 5 the determination of the Commission, is sufficient to
 6 ensure that the seller will be paid—

7 (A) the full purchase price when due, as
 8 agreed upon by the buyer and seller; or

9 (B) if the buyer and seller are unable to
 10 agree upon a price—

11 (i) a fair and equitable price for nat-
 12 ural gas as determined by the President
 13 under section 302 of the Natural Gas Pol-
 14 icy Act of 1978 (15 U.S.C. 3362), or

15 (ii) a just and reasonable price for
 16 electric energy as determined by the Sec-
 17 retary of Energy or the Commission, as
 18 appropriate, under section 202(c) of the
 19 Federal Power Act (16 U.S.C. 824a(c)).

20 (3) REQUIREMENT TO MEET IN-STATE DE-
 21 MAND.—Notwithstanding any other provision of law,
 22 a State electric utility commission in the western en-
 23 ergy market may prohibit an electric utility in the
 24 State from making any sale of electric energy to a
 25 purchaser in a State described in paragraph (1) at

1 any time at which a State electric utility commission
2 determines that the electric utility is not meeting the
3 demand for electric energy in the service area of the
4 electric utility.

5 (c) REPORT.—Not later than 120 days after the date
6 of enactment of this title, the Secretary of Energy shall—

7 (1) conduct an investigation to determine
8 whether any electric utility in a State described in
9 subsection (d)(1) has been rendered uncreditworthy
10 or has defaulted on any payment for electric energy
11 as a result of a transfer of funds by the electric util-
12 ity to a parent company or to an affiliate of the elec-
13 tric utility (except a payment made in accordance
14 with a State deregulation statute); and

15 (2) submit to the Committee on Energy and
16 Commerce of the House of Representatives and the
17 Committee on Energy and Natural Resources of the
18 Senate a report describing the results of the inves-
19 tigation.

20 (d) DURATION.—A load-differentiated demand rate
21 or cost-of-service based rate imposed under this section
22 shall remain in effect until such time as the market for
23 electric energy in the western energy market reflects just
24 and reasonable rates, as determined by the Commission.

1 (e) AUTHORITY OF STATE REGULATORY AUTHORI-
 2 TIES.—This section does not diminish or have any other
 3 effect on the authority of a State regulatory authority (as
 4 defined in section 3 of the Federal Power Act (16 U.S.C.
 5 796)) to regulate rates and charges for the sale of electric
 6 energy to consumers, including the authority to determine
 7 the manner in which wholesale rates shall be passed on
 8 to consumers (including the setting of tiered pricing, real-
 9 time pricing, and baseline rates).

10 (f) DEFINITIONS.—For purposes of this section—

11 (1) COMMISSION.—The term “Commission”
 12 means the Federal Energy Regulatory Commission.

13 (2) COST-OF-SERVICE BASED RATE.—The term
 14 “cost-of-service based rate” means a rate, charge, or
 15 classification for the sale of electric energy that is
 16 equal to—

17 (A) all the variable and fixed costs for pro-
 18 ducing the electric energy; and

19 (B) a reasonable return on invested cap-
 20 ital.

21 (3) ELECTRIC UTILITY.—The term “electric
 22 utility” means any person, State agency (including
 23 any municipality), Federal agency (including the
 24 Tennessee Valley Authority or any Federal power

1 marketing agency) that sells electric energy in inter-
 2 state commerce.

3 (4) LOAD-DIFFERENTIATED DEMAND RATE.—

4 The term “load-differentiated demand rate” means
 5 a rate, charge, or classification for the sale of elec-
 6 tric energy that reflects differences in the demand
 7 for electric energy during various times of day,
 8 months, seasons, or other time periods.

9 (5) WESTERN ENERGY MARKET.—The term
 10 “western energy market” means the area covered by
 11 the Western Systems Coordinating Council of the
 12 North American Electric Reliability Council.

13 (g) REPEAL.—Effective March 1, 2003, this section
 14 is repealed, and any load-differentiated demand rate or
 15 cost-of-service based rate imposed under this section that
 16 is then in effect shall no longer be effective.

17 **SEC. 509. NATURAL GAS RATE CEILING IN CALIFORNIA.**

18 Section 284.8(i) of title 18, Code of Federal Regula-
 19 tions (relating to the waiver of the maximum rate ceiling
 20 on capacity release transactions on interstate natural gas
 21 pipelines) shall not apply to the transportation of natural
 22 gas into the State of California from outside the State,
 23 effective on the date of enactment of this section.

1 **SEC. 510. SALE PRICE IN BUNDLED NATURAL GAS TRANS-**
2 **ACTIONS.**

3 (a) DISCLOSURE.—Not later than 60 days after the
4 date of enactment of this section, the Federal Energy Reg-
5 ulatory Commission shall issue a rule under section 4 of
6 the Natural Gas Act (15 U.S.C. 717c) requiring any per-
7 son that sells natural gas subject to the jurisdiction of the
8 Commission in a bundled transaction to file with the Com-
9 mission, not later than the date specified by the Commis-
10 sion, a statement that discloses—

11 (1) the portion of the sale price that is attrib-
12 utable to the price paid by the seller for the natural
13 gas; and

14 (2) the portion of the sale price that is attrib-
15 utable to the price paid for the transportation of the
16 natural gas.

17 (b) DEFINITION OF BUNDLED TRANSACTION.—For
18 purposes of this section, the term “bundled transaction”
19 means a transaction for the sale of natural gas in which
20 the sale price includes both the cost of the natural gas
21 and the cost of transporting the natural gas.

1 **TITLE VI—RENEWABLES AND**
2 **DISTRIBUTED GENERATION**

3 **SEC. 601. ASSESSMENT OF RENEWABLE ENERGY RE-**
4 **SOURCES.**

5 (a) **RESOURCE ASSESSMENT.**—Not later than one
6 year after the date of enactment of this title, and each
7 year thereafter, the Secretary of Energy shall publish an
8 assessment of all renewable energy resources available
9 within the United States.

10 (b) **CONTENTS OF REPORT.**—The report published
11 under subsection (a) shall contain—

12 (1) a detailed inventory describing the available
13 amount and characteristics of solar, wind, biomass,
14 geothermal, hydroelectric and other renewable en-
15 ergy sources, and

16 (2) such other information as the Secretary of
17 Energy believes would be useful in developing such
18 renewable energy resources, including descriptions of
19 surrounding terrain, population and load centers,
20 nearby energy infrastructure, location of energy and
21 water resources, and available estimates of the costs
22 needed to develop each resource.

1 **SEC. 602. FEDERAL PURCHASE REQUIREMENT.**

2 (a) REQUIREMENT.—The President shall ensure
3 that, of the total amount of electric power the federal gov-
4 ernment purchases during any fiscal year—

5 (1) not less than 3 percent in fiscal years 2002
6 through 2004,

7 (2) not less than 5 percent in fiscal years 2005
8 through 2009, and

9 (3) not less than 7.5 percent in fiscal year 2010
10 and each fiscal year thereafter—shall be electric
11 power generated by a renewable energy source.

12 (b) DEFINITION.—For purposes of this section, the
13 term “renewable energy source” means—

14 (1) wind;

15 (2) biomass;

16 (3) a geothermal source;

17 (4) a solar thermal source;

18 (5) a photovoltaic source;

19 (6) fuel cells; or

20 (7) additional hydroelectric generation capacity
21 achieved from increased efficiency or additions of
22 new capacity at an existing hydroelectric dam.

23 **SEC. 603. INTERCONNECTION STANDARDS.**

24 Section 210 of the Federal Power Act (42 U.S.C.
25 824i) is amended by adding at the end the following:

1 “(f) SPECIAL RULE FOR DISTRIBUTED GENERATION
2 FACILITIES.—

3 “(1) DEFINITION.—As used in this subsection,
4 the term ‘distributed generation facility’ means an
5 electric power generation facility that—

6 “(A) is designed to serve retail customers
7 at or near the point of consumption; and

8 “(B) interconnects with local distribution
9 facilities.

10 “(2) INTERCONNECTION.—A local distribution
11 company shall interconnect a distributed generation
12 facility with the local distribution facilities of such
13 company if the distributed generation facility owner
14 or operator complies with the final rule adopted
15 under paragraph (3) and pays the costs directly re-
16 lated to such interconnection. Costs, terms, and con-
17 ditions related to such interconnection shall be just,
18 reasonable, and not unduly discriminatory.

19 “(3) RULES.—Within one year after the date of
20 enactment of this subsection, the Commission shall
21 adopt a final rule to establish safety, reliability, and
22 power quality standards related to distributed gen-
23 eration facilities. For purposes of developing such
24 standards, the Commission may classify distributed
25 power generation facilities based on size and pre-

1 scribe different requirements for different classes of
 2 facilities. The Commission shall establish an advisory
 3 committee composed of qualified experts to
 4 make recommendations to the Commission on the
 5 development of such standards.”.

6 **SEC. 604. NET METERING.**

7 Title VI of the Public Utility Regulatory Policies Act
 8 of 1978 is amended by adding at the end the following:

9 **“SEC. 605. NET METERING FOR RENEWABLE ENERGY AND**
 10 **FUEL CELLS.**

11 “(a) DEFINITIONS.—For purposes of this section:

12 “(1) The term ‘eligible on-site generating facil-
 13 ity’ means—

14 “(A) a facility on the site of a residential
 15 electric consumer with a maximum generating
 16 capacity of 100 kilowatts or less that is fueled
 17 by solar or wind energy; or

18 “(B) a facility on the site of a commercial
 19 electric consumer with a maximum generating
 20 capacity of 250 kilowatts or less that is fueled
 21 solely by a renewable energy resource.

22 “(2) The term ‘renewable energy resource’
 23 means solar energy, wind energy, biomass, geo-
 24 thermal energy, or fuel cells.

1 “(3) The term ‘net metering service’ means
2 service to an electric consumer under which elec-
3 tricity generated by that consumer from an eligible
4 on-site generating facility and delivered to the dis-
5 tribution system through the same meter through
6 which purchased electricity is received may be used
7 to offset electricity provided by the retail electric
8 supplier to the electric consumer during the applica-
9 ble billing period so that an electric consumer is
10 billed only for the net electricity consumed during
11 the billing period.

12 “(b) REQUIREMENT TO PROVIDE NET METERING
13 SERVICE.—Each retail electric supplier shall make avail-
14 able upon request net metering service to any retail elec-
15 tric consumer that the supplier currently serves or solicits
16 for service.

17 “(c) RATES AND CHARGES.—

18 “(1) IDENTICAL CHARGES.—A retail electric
19 supplier—

20 “(A) shall charge the owner or operator of
21 an on-site generating facility rates and charges
22 that are identical to those that would be
23 charged other retail electric customers of the
24 electric company in the same rate class; and

1 “(B) shall not charge the owner or oper-
2 ator of an on-site generating facility any addi-
3 tional standby, capacity, interconnection, or
4 other rate or charge.

5 “(2) MEASUREMENT.—A retail electric supplier
6 that supplies electricity to the owner or operator of
7 an on-site generating facility shall measure the
8 quantity of electricity produced by the on-site facility
9 and the quantity of electricity consumed by the
10 owner or operator of an on-site generating facility
11 during a billing period in accordance with normal
12 metering practices.

13 “(3) ELECTRICITY SUPPLIED EXCEEDING ELEC-
14 TRICITY GENERATED.—If the quantity of electricity
15 supplied by a retail electric supplier during a billing
16 period exceeds the quantity of electricity generated
17 by an on-site generating facility and fed back to the
18 electric distribution system during the billing period,
19 the supplier may bill the owner or operator for the
20 net quantity of electricity supplied by the retail elec-
21 tric supplier, in accordance with normal metering
22 practices.

23 “(4) ELECTRICITY GENERATED EXCEEDING
24 ELECTRICITY SUPPLIED.—If the quantity of elec-
25 tricity generated by an on-site generating facility

1 during a billing period exceeds the quantity of elec-
2 tricity supplied by the retail electric supplier during
3 the billing period—

4 “(A) the retail electric supplier may bill
5 the owner or operator of the on-site generating
6 facility for the appropriate charges for the bill-
7 ing period in accordance with paragraph (2);
8 and

9 “(B) the owner or operator of the on-site
10 generating facility shall be credited for the ex-
11 cess kilowatt-hours generated during the billing
12 period, with the kilowatt-hour credit appearing
13 on the bill for the following billing period.

14 “(d) SAFETY AND PERFORMANCE STANDARDS.—

15 “(1) An eligible on-site generating facility and
16 net metering system used by a retail electric con-
17 sumer shall meet all applicable safety, performance,
18 reliability, and interconnection standards established
19 by the National Electrical Code, the Institute of
20 Electrical and Electronics Engineers, and Under-
21 writers Laboratories.

22 “(2) The Commission, after consultation with
23 State regulatory authorities and nonregulated local
24 distribution systems and after notice and oppor-
25 tunity for comment, may adopt, by rule, additional

1 control and testing requirements for on-site gener-
 2 ating facilities and net metering systems that the
 3 Commission determines are necessary to protect
 4 public safety and system reliability.”.

5 **SEC. 605. ACCESS TO TRANSMISSION BY INTERMITTENT**
 6 **GENERATORS.**

7 Part II of the Federal Power Act (16 U.S.C. 824–
 8 824m) is amended by adding at the end the following:

9 **“SEC. 217. ACCESS TO TRANSMISSION BY INTERMITTENT**
 10 **GENERATORS.**

11 “(a) IN GENERAL.—The Commission shall ensure
 12 that all transmitting utilities provide transmission service
 13 to intermittent generators in a manner that does not pe-
 14 nalize such generators, directly or indirectly, for charac-
 15 teristics that are—

16 “(1) inherent to intermittent energy resources;
 17 and

18 “(2) are beyond the control of such generators.

19 “(b) POLICIES.—The Commission shall ensure that
 20 the requirement in subsection (a) is met by adopting such
 21 policies as it deems appropriate which shall include, but
 22 not be limited to, the following:

23 “(1) Subject to the sole exception set forth in
 24 paragraph (2), the Commission shall ensure that the
 25 rates transmitting utilities charge intermittent gen-

1 erator customers for transmission services do not di-
2 rectly or indirectly penalize intermittent generator
3 customers for scheduling deviations.

4 “(2) The Commission may exempt a transmit-
5 ting utility from the requirement set forth in sub-
6 section (b) if the transmitting utility demonstrates
7 that scheduling deviations by its intermittent gener-
8 ator customers are likely to have a substantial ad-
9 verse impact on the reliability of the transmitting
10 utility’s system. For purposes of administering this
11 exemption, there shall be a rebuttable presumption
12 of no adverse impact where intermittent generators
13 collectively constitute 20 percent or less of total gen-
14 eration interconnected with transmitting utility’s
15 system and using transmission services provided by
16 transmitting utility.

17 “(3) The Commission shall ensure that to the
18 extent any transmission charges recovering the
19 transmitting utility’s embedded costs are assessed to
20 intermittent generators, they are assessed to such
21 generators on the basis of kilowatt-hours generated
22 rather than the intermittent generator’s capacity.

23 “(4) The Commission shall require transmitting
24 utilities to offer at least to intermittent generators,
25 if not all transmission customers, access to nonfirm

1 transmission service pursuant to long-term contracts
 2 of up to ten years duration under reasonable terms
 3 and conditions.

4 “(c) DEFINITIONS.—In this section:

5 “(1) INTERMITTENT GENERATOR.—The term
 6 ‘intermittent generator’ means a person that gen-
 7 erates electricity using wind or solar energy.

8 “(2) NONFIRM TRANSMISSION SERVICE.—The
 9 term ‘nonfirm transmission service’ means trans-
 10 mission service provided on an ‘as available’ basis.

11 “(3) SCHEDULING DEVIATION.—The term
 12 ‘scheduling deviation’ means delivery of more or less
 13 energy than has previously been forecast in a sched-
 14 ule submitted by an intermittent generator to a con-
 15 trol area operator or transmitting utility.”.

16 **TITLE VII—HYDROELECTRIC** 17 **RELICENSING**

18 **SEC. 701. ALTERNATIVE CONDITIONS.**

19 (a) ALTERNATIVE MANDATORY CONDITIONS.—Sec-
 20 tion 4 of the Federal Power Act (16 U.S.C. 797) is
 21 amended by adding at the end the following:

22 “(h)(1) Whenever any person applies for a license for
 23 any project works within any reservation of the United
 24 States under subsection (e), and the Secretary of the de-
 25 partment under whose supervision such reservation falls

1 shall deem a condition to such license to be necessary
 2 under the first proviso of such section, the license appli-
 3 cant may propose an alternative condition.

4 “(2) Notwithstanding the first proviso of subsection
 5 (e), the Secretary of the department under whose super-
 6 vision the reservation falls shall accept the alternative con-
 7 dition proposed by the license applicant, and the Commis-
 8 sion shall include in the license such alternative condition,
 9 if the Secretary of the appropriate department determines
 10 that the alternative condition—

11 “(A) provides equal or greater protection for
 12 the reservation than the condition deemed necessary
 13 by the Secretary;

14 “(B) is based on sound science; and

15 “(C) will either—

16 “(i) cost less to implement than the condi-
 17 tion deemed necessary by the Secretary, or

18 “(ii) result in less loss of generating capac-
 19 ity than the condition deemed necessary by the
 20 Secretary.”.

21 (b) ALTERNATIVE FISHWAYS.—Section 18 of the
 22 Federal Power Act (16 U.S.C. 811) is amended by—

23 (1) inserting “(a)” before the first sentence;

24 and

25 (2) adding at the end the following:

1 “(b)(1) Whenever the Commission shall require a li-
 2 censee to construct, maintain, or operate a fishway pre-
 3 scribed by the Secretary of the Interior or the Secretary
 4 of Commerce under this section, the licensee may propose
 5 an alternative.

6 “(2) Notwithstanding subsection (a), the Secretary of
 7 the Interior or the Secretary of Commerce, as appropriate,
 8 shall accept and prescribe, and the Commission shall re-
 9 quire, the alternative proposed by the licensee, if the Sec-
 10 retary of the appropriate department determines that the
 11 alternative—

12 “(A) will result in equal or greater fish passage
 13 than the fishway initially prescribed by the Sec-
 14 retary;

15 “(B) is based on sound science; and

16 “(C) will either—

17 “(i) cost less to implement than the
 18 fishway initially prescribed by the Secretary, or

19 “(ii) result in less loss of generating capac-
 20 ity than the fishway initially prescribed by the
 21 Secretary.”.

22 **SEC. 702. DISPOSITION OF HYDROELECTRIC CHARGES.**

23 (a) ANNUAL CHARGES.—Section 10(e)(1) of the Fed-
 24 eral Power Act (16 U.S.C. 803(e)(1) is amended—

1 (1) by striking “subject to annual appropria-
2 tions Acts” in the first proviso; and

3 (2) by inserting after “(in addition to other
4 funds appropriated for such purposes)” in the first
5 proviso the following: “without further appropria-
6 tion”.

7 (b) OTHER CHARGES.—Section 17(a) of the Federal
8 Power Act (16 U.S.C. 810(a)) is amended by striking
9 “into the Treasury of the United States and credited to
10 ‘Miscellaneous receipts’” and inserting the following: “to
11 the Secretary of the department under whose supervision
12 the affected reservation falls, without further appropria-
13 tion, to be used in accordance with subsection (c)”.

14 (c) USE OF FUNDS.—Section 17 of the Federal
15 Power Act (16 U.S.C. 810) is further amended by adding
16 at the end the following:

17 “(c)(1) The Secretary receiving a distribution of 12½
18 per centum of the proceeds of charges under subsection
19 (a) may use such proceeds solely for the protection of the
20 water resources on—

21 “(A) the reservation on which the project for
22 which the proceeds were paid is located; or

23 “(B) the reservation on which the headwaters
24 of the waterway, on which the project for which the
25 proceeds were paid, is located.

1 “(2) For purposes of this subsection, activities for the
2 protection of water resources for which proceeds made
3 available under this subsection may be used may only in-
4 clude the following:

5 “(A) promoting the recovery of threatened and
6 endangered species;

7 “(B) road and trail assessments and plans,
8 maintenance, obliteration, or closure;

9 “(C) wildlife and fish habitat management;

10 “(D) multiparty monitoring of water protection
11 activities;

12 “(E) watershed analysis, including resource
13 conditions and trend assessments;

14 “(F) erosion control and restoring hydrologic
15 function to meadows, wetlands, and floodplains; and

16 “(G) job training associated with paragraph
17 (3).

18 “(3) In order to provide employment and job training
19 opportunities to residents of rural communities located
20 within or near a reservation identified in paragraph (1),
21 the Secretary may make grants or enter into cooperative
22 agreements or contracts with—

23 “(A) a private, non-profit, or cooperative entity
24 within the same county as the reservation;

1 “(B) businesses that employ 25 or less employ-
2 ees;

3 “(C) an entity that will hire or train residents
4 of communities located within or near the reserva-
5 tion to perform the contract; or

6 “(D) the Youth Conservation Corps or related
7 partnerships with State, local, or nonprofit youth
8 groups.”

9 **SEC. 703. RELICENSING STUDY.**

10 (a) IN GENERAL.—The Federal Energy Regulatory
11 Commission shall, in consultation with the Secretary of
12 Commerce, the Secretary of the Interior, and the Sec-
13 retary of Agriculture, conduct a study of all new licensees
14 issued for existing projects under section 15 since January
15 1, 1994.

16 (b) SCOPE.—The study shall analyze—

17 (1) the length of time the Commission has
18 taken to issue each new license for an existing
19 project;

20 (2) the additional cost to the licensee attrib-
21 utable to new license conditions;

22 (3) the change in generating capacity attrib-
23 utable to new license conditions;

24 (4) the environmental benefits achieved by new
25 license conditions; and

1 (5) litigation arising from the issuance or fail-
2 ure to issue new licenses for existing projects under
3 section 15 or the imposition or failure to impose new
4 license conditions.

5 (c) DEFINITION.—As used in this section, the term
6 “new license condition” means any condition imposed
7 under—

8 (1) section 4(e) of the Federal Power Act (16
9 U.S.C. 797(e)),

10 (2) section 10(e) of the Federal Power Act (16
11 U.S.C. 803(e)),

12 (3) section 10(j) of the Federal Power Act (16
13 U.S.C. 803(j)),

14 (4) section 18 of the Federal Power Act (16
15 U.S.C. 811), or

16 (5) section 401(d) of the Clean Water Act (33
17 U.S.C. 1341(d)).

18 (d) CONSULTATION.—The Commission shall give in-
19 terested persons and licensees an opportunity to submit
20 information and views in writing.

21 (e) REPORT.—The Commission shall report its find-
22 ings to the Committee on Energy and Natural Resources
23 of the United States Senate and the Committee on Energy
24 and Commerce of the House of Representatives not later

1 than six months after the date of enactment of this sec-
 2 tion.

3 **TITLE VIII—COAL**

4 **SEC. 801. DEFINITIONS.**

5 In this title:

6 (1) **COST AND PERFORMANCE GOALS.**—The
 7 term “cost and performance goals” means the cost
 8 and performance goals established under section
 9 811.

10 (2) **SECRETARY.**—The term “Secretary” means
 11 the Secretary of Energy.

12 **Subtitle A—National Coal-Based** 13 **Technology Development and** 14 **Applications Program**

15 **SEC. 811. COST AND PERFORMANCE GOALS.**

16 (a) **IN GENERAL.**—The Secretary shall perform an
 17 assessment that identifies costs and associated perform-
 18 ance of technologies that would permit the continued cost-
 19 competitive use of coal for electricity generation, as chem-
 20 ical feedstocks, and as transportation fuel in the periods—

- 21 (1) 2007 through 2014;
- 22 (2) 2015 through 2019; and
- 23 (3) 2020 and each year thereafter.

1 (b) CONSULTATION.—In establishing the cost and
2 performance goals, the Secretary shall consult with rep-
3 resentatives of—

4 (1) the United States coal industry;

5 (2) State coal development agencies;

6 (3) the electric utility industry;

7 (4) railroads and other transportation indus-
8 tries;

9 (5) manufacturers of equipment using advanced
10 coal technologies;

11 (6) organizations representing workers; and

12 (7) organizations formed to—

13 (A) further the goals of environmental pro-
14 tection;

15 (B) promote the use of coal; or

16 (C) promote the development and use of
17 advanced coal technologies.

18 (c) TIMING.—The Secretary shall—

19 (1) not later than 120 days after the date of
20 enactment of this title, issue a set of draft cost and
21 performance goals for public comment; and

22 (2) not later than 180 days after the date of
23 enactment of this title, after taking into consider-
24 ation any public comments received, submit to Con-
25 gress the final cost and performance goals.

1 **SEC. 812. STUDY.**

2 (a) IN GENERAL.—Not later than 1 year after the
3 date of enactment of this title, the Secretary, in coopera-
4 tion with the Secretary of the Interior and the Adminis-
5 trator of the Environmental Protection Agency, shall con-
6 duct a study to—

7 (1) identify technologies capable of achieving
8 the cost and performance goals;

9 (2) assess the costs that would be incurred by,
10 and the period of time that would be required for,
11 the development and demonstration of the cost and
12 performance goals; and

13 (3) develop recommendations for technology de-
14 velopment programs, which the Department of En-
15 ergy could carry out in cooperation with industry, to
16 develop and demonstrate the cost and performance
17 goals.

18 (b) COOPERATION.—In carrying out this section, the
19 Secretary shall give due weight to the expert advice of rep-
20 resentatives of the entities described in section 811(b).

21 **SEC. 813. TECHNOLOGY RESEARCH AND DEVELOPMENT**
22 **PROGRAM.**

23 (a) IN GENERAL.—The Secretary shall carry out a
24 program of research on and development, demonstration,
25 and commercial application of coal-based technologies

1 under the statutory authorities available to him for car-
2 rying out research and development.

3 (b) CONDITIONS.—The research, development, dem-
4 onstration, and commercial application programs identi-
5 fied in section 812(a) shall be designed to achieve the cost
6 and performance goals.

7 (c) REPORT.—Not later than 18 months after the
8 date of enactment of this title, the Secretary shall submit
9 to the President and Congress a report containing—

10 (1) a description of the programs that, as of the
11 date of the report, are in effect or are to be carried
12 out by the Department of Energy to support tech-
13 nologies that are designed to achieve the cost and
14 performance goals; and

15 (2) recommendations for additional authorities
16 required to achieve the cost and performance goals.

17 **SEC. 814. AUTHORIZATION OF APPROPRIATIONS.**

18 (a) IN GENERAL.—There are authorized to be appro-
19 priated to carry out this subtitle \$100,000,000 for each
20 of fiscal years 2002 through 2012, to remain available
21 until expended.

22 (b) CONDITIONS OF AUTHORIZATION.—The author-
23 ization of appropriations under subsection (a)—

1 (1) shall be in addition to authorizations of ap-
2 propriations in effect on the date of enactment of
3 this title; and

4 (2) shall not be a cap on Department of Energy
5 fossil energy research and development and clean
6 coal technology appropriations.

7 **Subtitle B—Power Plant** 8 **Improvement Initiative**

9 **SEC. 821. POWER PLANT IMPROVEMENT INITIATIVE PRO-** 10 **GRAM.**

11 (a) IN GENERAL.—The Secretary shall carry out a
12 power plant improvement initiative program that will dem-
13 onstrate commercial applications of advanced coal-based
14 technologies applicable to new or existing power plants,
15 including co-production plants, which must advance the ef-
16 ficiency, environmental performance, and cost competitive-
17 ness well beyond that which is in operation or has been
18 demonstrated on the date of enactment of this title.

19 (b) PLAN.—Not later than 120 days after the date
20 of enactment of this title, the Secretary shall submit to
21 Congress a plan to carry out subsection (a) that includes
22 a description of—

23 (1) the program elements and management
24 structure to be used;

1 (2) the technical milestones to be achieved with
2 respect to each of the advanced coal-based tech-
3 nologies included in the plan; and

4 (3) the demonstration activities proposed to be
5 conducted at new or existing coal-based electric gen-
6 eration units having at least 50 megawatts name-
7 plate rating, including improvements to allow the
8 units to achieve 1 or more of the following:

9 (A) An overall design efficiency improve-
10 ment of not less than 3 percent as compared
11 with the efficiency of the unit as operated on
12 the date of enactment of this title and before
13 any retrofit, repowering, replacement, or instal-
14 lation.

15 (B) A significant improvement in the envi-
16 ronmental performance related to the control of
17 sulfur dioxide, nitrogen oxide, and mercury in a
18 manner that is different and well below the cost
19 of technologies that are in operation or have
20 been demonstrated on the date of enactment of
21 this title.

22 (C) A means of recycling, reusing, or se-
23 questering a significant portion of coal combus-
24 tion wastes produced by coal-based generating

1 units excluding practices that are commercially
2 available at the date of enactment of this title.

3 **SEC. 822. FINANCIAL ASSISTANCE.**

4 (a) IN GENERAL.—Not later than 180 days after the
5 date on which the Secretary submits to Congress the plan
6 under section 821(b), the Secretary shall solicit proposals
7 for projects at new or existing facilities designed to achieve
8 the levels of performance set forth in section 821(b)(3).

9 (b) PROJECT CRITERIA.—A solicitation under sub-
10 section (a) may include solicitation of a proposal for a
11 project to demonstrate—

12 (1) the control of emissions of 1 or more pollut-
13 ants; or

14 (2) the production of coal combustion byprod-
15 ucts that are capable of obtaining economic values
16 significantly greater than byproducts produced on
17 the date of enactment of this title.

18 (c) FINANCIAL ASSISTANCE.—The Secretary shall
19 provide financial assistance to projects that—

20 (1) demonstrate overall cost reductions in the
21 utilization of coal to generate useful forms of energy;

22 (2) improve the competitiveness of coal among
23 various forms of energy in order to maintain a diver-
24 sity of fuel choices in the United States to meet elec-
25 tricity generation requirements;

1 (3) achieve, in a cost-effective manner, 1 or
2 more of the criteria described in the solicitation; and

3 (4) demonstrate technologies that are applicable
4 to 25 percent of the electricity generating facilities
5 that use coal as the primary feedstock on the date
6 of enactment of this title.

7 (d) FEDERAL SHARE.—The Federal share cost of a
8 project funded under this subtitle shall not exceed 50 per-
9 cent.

10 **SEC. 823. FUNDING.**

11 To carry out this subtitle, the Secretary may use any
12 unobligated funds available to the Secretary and any funds
13 obligated to any project selected under the clean coal tech-
14 nology program that become unobligated.

15 **TITLE IX—PRICE-ANDERSON**
16 **ACT REAUTHORIZATION**

17 **SEC. 901. SHORT TITLE.**

18 This title may be cited as the “Price-Anderson
19 Amendments Act of 2001”.

20 **SEC. 902. INDEMNIFICATION AUTHORITY.**

21 (a) INDEMNIFICATION OF NRC LICENSEES.—Section
22 170c. of the Atomic Energy Act of 1954 (42 U.S.C.
23 2210(c)) is amended by striking “August 1, 2002” each
24 place it appears and inserting “August 1, 2012”.

1 (b) INDEMNIFICATION OF DOE CONTRACTORS.—
 2 Section 170d.(1)(A) of the Atomic Energy Act of 1954
 3 (42 U.S.C. 2210(d)(1)(A)) is amended by striking “, until
 4 August 1, 2002,”.

5 (c) INDEMNIFICATION OF NONPROFIT EDUCATIONAL
 6 INSTITUTIONS.—Section 170k. of the Atomic Energy Act
 7 of 1954 (42 U.S.C. 2210(k)) is amended by striking “Au-
 8 gust 1, 2002” each place it appears and inserting “August
 9 1, 2012”.

10 **SEC. 903. MAXIMUM ASSESSMENT.**

11 Section 170b.(1) of the Atomic Energy Act of 1954
 12 (42 U.S.C. 2210(b)(1)) is amended by striking
 13 “\$10,000,000” and inserting “\$20,000,000”.

14 **SEC. 904. DOE LIABILITY LIMIT.**

15 (a) AGGREGATE LIABILITY LIMIT.—Section 170d. of
 16 the Atomic Energy Act of 1954 (42 U.S.C. 2210(d)) is
 17 amended by striking subsection (2) and inserting the fol-
 18 lowing:

19 “(2) In agreements of indemnification entered
 20 into under paragraph (1), the Secretary—

21 “(A) may require the contractor to provide
 22 and maintain financial protection of such a type
 23 and in such amounts as the Secretary shall de-
 24 termine to be appropriate to cover public liabil-

1 ity arising out of or in connection with the con-
2 tractual activity, and

3 “(B) shall indemnify the persons indem-
4 nified against such claims above the amount of
5 the financial protection required, in the amount
6 of \$10,000,000,000 (subject to adjustment for
7 inflation under subsection t.), in the aggregate,
8 for all persons indemnified in connection with
9 such contract and for each nuclear incident, in-
10 cluding such legal costs of the contractor as are
11 approved by the Secretary.”.

12 (b) CONTRACT AMENDMENTS.—Section 170d. of the
13 Atomic Energy Act of 1954 (42 U.S.C. 2210(d)) is further
14 amended by striking subsection (3) and inserting the fol-
15 lowing:

16 “(3) All agreements of indemnification under
17 which the Department of Energy (or its predecessor
18 agencies) may be required to indemnify any person,
19 shall be deemed to be amended, on the date of the
20 enactment of the Price-Anderson Amendments Act
21 of 1999, to reflect the amount of indemnity for pub-
22 lic liability and any applicable financial protection
23 required of the contractor under this subsection on
24 such date.”.

1 **SEC. 905. INCIDENTS OUTSIDE THE UNITED STATES.**

2 (a) AMOUNT OF INDEMNIFICATION.—Section 170
3 d.(5) of the Atomic Energy Act of 1954 (42 U.S.C.
4 2210(d)(5)) is amended by striking “\$100,000,000” and
5 inserting “\$500,000,000”.

6 (b) LIABILITY LIMIT.—Section 170e.(4) of the Atom-
7 ic Energy Act of 1954 (42 U.S.C. 2210(e)(4)) is amended
8 by striking “\$100,000,000” and inserting
9 “\$500,000,000”.

10 **SEC. 906. REPORTS.**

11 Section 170p. of the Atomic Energy Act of 1954 (42
12 U.S.C. 2210(p)) is amended by striking “August 1, 1998”
13 and inserting “August 1, 2008”.

14 **SEC. 907. INFLATION ADJUSTMENT.**

15 Section 170t. of the Atomic Energy Act of 1954 (42
16 U.S.C. 2210(t)) is amended—

17 (1) by renumbering paragraph (2) as paragraph
18 (3); and

19 (2) by adding after paragraph (1) the following
20 new paragraph:

21 “(2) The Secretary shall adjust the amount of
22 indemnification provided under an agreement of in-
23 demnification under subsection d. not less than once
24 during each 5-year period following the date of the
25 enactment of the Price-Anderson Amendments Act

1 of 2001, in accordance with the aggregate percent-
2 age change in the Consumer Price Index since—

3 “(A) such date of enactment, in the case
4 of the first adjustment under this subsection; or
5 “(B) the previous adjustment under this
6 subsection.”.

7 **SEC. 908. CIVIL PENALTIES.**

8 (a) REPEAL OF AUTOMATIC REMISSION.—Section
9 234A b.(2) of the Atomic Energy of 1954 (42 U.S.C.
10 2282a(b)(2)) is amended by striking the last sentence.

11 (b) LIMITATION FOR NONPROFIT INSTITUTIONS.—
12 Section 234A of the Atomic Energy Act of 1954 (42
13 U.S.C. 2282a) is further amended by striking subsection
14 d. and inserting the following:

15 “d. Notwithstanding subsection a., no contractor,
16 subcontractor, or supplier considered to be nonprofit
17 under the Internal Revenue Code of 1954 shall be subject
18 to a civil penalty under this section in excess of the
19 amount of any performance fee paid by the Secretary to
20 such contractor, subcontractor, or supplier under the con-
21 tract under which the violation or violations; occur.”.

22 **SEC. 909. EFFECTIVE DATE.**

23 (a) IN GENERAL.—The amendments made by this
24 title shall become effective on the date of the enactment
25 of this title.

1 (b) INDEMNIFICATION PROVISIONS.—The amend-
 2 ments made by sections 703, 704, and 705 shall not apply
 3 to any nuclear incident occurring before the date of the
 4 enactment of this title.

5 (c) CIVIL PENALTY PROVISIONS.—The amendments
 6 made by section 708 to section 234A of the Atomic En-
 7 ergy Act of 1954 (42 U.S.C. 2282a(b)(2)) shall not apply
 8 to any violation occurring under a contract entered into
 9 before the date of the enactment of this title.

10 **DIVISION C—DOMESTIC OIL AND**
 11 **GAS PRODUCTION AND**
 12 **TRANSPORTATION**
 13 **TITLE X—OIL AND GAS**
 14 **PRODUCTION**

15 **SEC. 1001. OUTER CONTINENTAL SHELF OIL AND GAS**
 16 **LEASE SALE 181.**

17 (a) REQUIREMENT.—Subject to applicable laws and
 18 regulations, not later than December 31, 2001, the Sec-
 19 retary of the Interior shall proceed with the proposed
 20 Eastern Gulf of Mexico Outer Continental Shelf Oil and
 21 Gas Lease Sale 181.

22 (b) MODIFICATION.—In carrying out the sale under
 23 subsection (a), the Secretary of the Interior shall modify
 24 the lease area by excluding the 120 blocks in a narrow
 25 strip beginning 15 miles from the coast of Alabama. The

1 Secretary shall include the 913 blocks in the area that
2 is greater than 100 miles from the coast of Florida in
3 Lease Sale 181.

4 **SEC. 1002. FEDERAL ONSHORE LEASING PROGRAMS FOR**
5 **OIL AND GAS.**

6 Consistent with applicable law and regulations, there
7 are authorized to be appropriated to the Secretary of the
8 Interior and the Secretary of Agriculture such sums as
9 may be necessary, including salary expenses to hire addi-
10 tional personnel, to ensure expeditious compliance with
11 National Environmental Policy Act requirements applica-
12 ble to oil and gas production on public lands and national
13 forest system lands.

14 **SEC. 1003. INCREASING PRODUCTION ON STATE AND PRI-**
15 **VATE LANDS.**

16 (a) STUDY.—The Secretary of Energy, in close co-
17 ordination with the Interstate Oil and Gas Compact Com-
18 mission, shall conduct a study to evaluate the opportuni-
19 ties for increasing oil and natural gas production from
20 State and privately controlled lands in the United States.
21 The study shall take into account trends in land use and
22 development that may affect oil and gas development, the
23 various leasing practices and rules for development among
24 the States, and differences in contract terms from State
25 to State and among private landowners. The evaluation

1 should also include an assessment of whether optimal re-
2 covery practices, including in-fill drilling, work-overs, and
3 enhanced recovery operations, are being employed consist-
4 ently to ensure the full development and conservation of
5 the resources. The evaluation should determine what im-
6 pediments may exist to ensuring optimal recovery prac-
7 tices and make recommendations as to how those impedi-
8 ments could be overcome. The study should also determine
9 whether production rights or leases are controlled by par-
10 ties no longer interested in fully recovering the resource,
11 with inactivity for a period of time being considered as
12 indicating a lack of interest.

13 (b) REPORT TO CONGRESS AND GOVERNORS.—Not
14 later than 240 days after the date of enactment of this
15 section, the Secretary shall provide a report to the Com-
16 mittee on Energy and Natural Resources in the Senate,
17 and the Committee on Resources in the House of Rep-
18 resentatives, summarizing the findings of the study car-
19 ried out under subsection (a) and providing recommenda-
20 tions for policies or other actions that could help increase
21 production on State and private lands. The Secretary shall
22 also provide a copy of the report to the Governors of the
23 Member States of the Interstate Oil and Compact Com-
24 mission.

1 **TITLE XI—PIPELINE SAFETY**
2 **RESEARCH AND DEVELOPMENT**

3 **SEC. 1101. PIPELINE INTEGRITY RESEARCH AND DEVELOP-**
4 **MENT.**

5 (a) IN GENERAL.—The Secretary of Transportation,
6 in coordination with the Secretary of Energy, shall develop
7 and implement an accelerated cooperative program of re-
8 search and development to ensure the integrity of natural
9 gas and hazardous liquid pipelines. This research and de-
10 velopment program shall include materials inspection tech-
11 niques, risk assessment methodology, and information sys-
12 tems surety.

13 (b) PURPOSE.—The purpose of the cooperative re-
14 search program shall be to promote research and develop-
15 ment to—

16 (1) ensure long-term safety, reliability and serv-
17 ice life for existing pipelines;

18 (2) expand capabilities of internal inspection
19 devices to identify and accurately measure defects
20 and anomalies;

21 (3) develop inspection techniques for pipelines
22 that cannot accommodate the internal inspection de-
23 vices available on the date of enactment;

1 (4) develop innovative techniques to measure
2 the structural integrity of pipelines to prevent pipe-
3 line failures;

4 (5) develop improved materials and coatings for
5 use in pipelines;

6 (6) improve the capability, reliability, and prac-
7 ticality of external leak detection devices;

8 (7) identify underground environments that
9 might lead to shortened service life;

10 (8) enhance safety in pipeline siting and land
11 use;

12 (9) minimize the environmental impact of pipe-
13 lines;

14 (10) demonstrate technologies that improve
15 pipeline safety, reliability, and integrity;

16 (11) provide risk assessment tools for opti-
17 mizing risk mitigation strategies; and

18 (12) provide highly secure information systems
19 for controlling the operation of pipelines.

20 (c) AREAS.—In carrying out this title, the Secretary
21 of Transportation, in coordination with the Secretary of
22 Energy, shall consider research and development on nat-
23 ural gas, crude oil, and petroleum product pipelines for—

24 (1) early crack, defect, and damage detection,
25 including real-time damage monitoring;

- 1 (2) automated internal pipeline inspection sen-
2 sor systems;
- 3 (3) land use guidance and set back manage-
4 ment along pipeline rights-of-way for communities;
- 5 (4) internal corrosion control;
- 6 (5) corrosion-resistant coatings;
- 7 (6) improved cathodic protection;
- 8 (7) inspection techniques where internal inspec-
9 tion is not feasible, including measurement of struc-
10 tural integrity;
- 11 (8) external leak detection, including portable
12 real-time video imaging technology, and the advance-
13 ment of computerized control center leak detection
14 systems utilizing real-time remote field data input;
- 15 (9) longer life, high strength, non-corrosive
16 pipeline materials;
- 17 (10) assessing the remaining strength of exist-
18 ing pipes;
- 19 (11) risk and reliability analysis models, to be
20 used to identify safety improvements that could be
21 realized in the near term resulting from analysis of
22 data obtained from a pipeline performance tracking
23 initiative.

1 (12) identification, monitoring, and prevention
2 of outside force damage, including satellite surveil-
3 lance; and

4 (13) any other areas necessary to ensuring the
5 public safety and protecting the environment.

6 (d) POINTS OF CONTACT.—

7 (1) DESIGNATION.—To coordinate and imple-
8 ment the research and development programs and
9 activities authorized under this title—

10 (A) the Secretary of Transportation shall
11 designate, as the point of contact for the De-
12 partment of Transportation, an officer of the
13 Department of Transportation who has been
14 appointed by the President and confirmed by
15 the Senate; and

16 (B) the Secretary of Energy shall des-
17 ignate, as the point of contact for the Depart-
18 ment of Energy, an officer of the Department
19 of Energy who has been appointed by the Presi-
20 dent and confirmed by the Senate.

21 (2) DUTIES.—(A) The point of contact for the
22 Department of Transportation shall have the pri-
23 mary responsibility for coordinating and overseeing
24 the implementation of the research, development,

1 and demonstration program plan, as defined in sub-
2 sections (e) and (f).

3 (B) The points of contact shall jointly assist in
4 arranging cooperative agreements for research, de-
5 velopment, and demonstration involving their respec-
6 tive Departments, national laboratories, universities,
7 and industry research organizations.

8 (e) RESEARCH AND DEVELOPMENT PROGRAM
9 PLAN.—Within 240 days after the date of enactment of
10 this Act, the Secretary of Transportation, in coordination
11 with the Secretary of Energy and the Pipeline Integrity
12 Technical Advisory Committee, shall prepare and submit
13 to the Congress a 5-year program plan to guide activities
14 under this Act. In preparing the program plan, the Sec-
15 retary of Transportation shall consult with appropriate
16 representatives of the natural gas, crude oil, and petro-
17 leum product pipeline industries to select and prioritize
18 appropriate project proposals. The Secretary may also
19 seek the advice of utilities, manufacturers, institutions of
20 higher learning, Federal agencies, the pipeline research in-
21 stitutions, national laboratories, State pipeline safety offi-
22 cials, environmental organizations, pipeline safety advo-
23 cates, and professional and technical societies.

24 (f) IMPLEMENTATION.—The Secretary of Transpor-
25 tation shall have primary responsibility for ensuring the

1 five-year plan provided for in subsection (e) is imple-
2 mented as intended by this Act. In carrying out the re-
3 search, development, and demonstration activities under
4 this Act, the Secretary of Transportation and the Sec-
5 retary of Energy may use, to the extent authorized under
6 applicable provisions of law, contracts, cooperative agree-
7 ments, cooperative research and development agreements
8 under the Stevenson-Wydler Technology Innovation Act of
9 1980 (15 U.S.C. 3701 et seq.), grants, joint ventures,
10 other transactions, and any other form of agreement avail-
11 able to the Secretary consistent with the recommendations
12 of the Advisory Committee.

13 (g) REPORTS TO CONGRESS.—The Secretary of
14 Transportation shall report to the Congress annually as
15 to the status and results to date of the implementation
16 of the research and development program plan. The report
17 shall include the activities of the Department of Transpor-
18 tation, the Department of Energy, the national labora-
19 tories, universities, and any other research organizations,
20 including industry research organizations.

21 **SEC. 1102. PIPELINE INTEGRITY TECHNICAL ADVISORY**
22 **COMMITTEE.**

23 (a) ESTABLISHMENT.—The Secretary of Transpor-
24 tation shall enter into appropriate arrangements with the
25 National Academy of Sciences to establish and manage the

1 Pipeline Integrity Technical Advisory Committee for the
2 purpose of advising the Secretary of Transportation and
3 the Secretary of Energy on the development and imple-
4 mentation of the five-year research, development, and
5 demonstration program plan as defined in section 1101(e).
6 The Advisory Committee shall have an ongoing role in
7 evaluating the progress and results of the research, devel-
8 opment, and demonstration carried out under this title.

9 (b) MEMBERSHIP.—The National Academy of
10 Sciences shall appoint the members of the Pipeline Integ-
11 rity Technical Advisory Committee after consultation with
12 the Secretary of Transportation and the Secretary of En-
13 ergy. Members appointed to the Advisory Committee
14 should have the necessary qualifications to provide tech-
15 nical contributions to the purposes of the Advisory Com-
16 mittee.

17 **SEC. 1103. AUTHORIZATION OF APPROPRIATIONS.**

18 (a) There are authorized to be appropriated to the
19 Secretary of Transportation for carrying out this title
20 \$3,000,000, which is to be derived from user fees (49
21 U.S.C. 60125), for each of the fiscal years 2002 through
22 2006.

23 (b) Of the amounts available in the Oil Spill Liability
24 Trust Fund (26 U.S.C. 9509), \$3,000,000 shall be trans-
25 ferred to the Secretary of Transportation to carry out pro-

1 grams for detection, prevention, and mitigation of oil spills
 2 authorized in this title for each of the fiscal years 2002
 3 through 2006.

4 (c) There are authorized to be appropriated to the
 5 Secretary of Energy for carrying out this title such sums
 6 as may be necessary for each of the fiscal years 2002
 7 through 2006.

8 **DIVISION D—DIVERSIFYING EN-**
 9 **ERGY DEMAND AND IMPROV-**
 10 **ING EFFICIENCY**
 11 **TITLE XII—VEHICLES**

12 **SEC. 1201. VEHICLE FUEL EFFICIENCY.**

13 (a) REQUIREMENT.—The Secretary of Transpor-
 14 tation, in consultation with the Secretary of Energy and
 15 the Administrator of the Environmental Protection Agen-
 16 cy, shall develop and implement mechanisms to increase
 17 fuel efficiency of light-duty vehicles to limit total demand
 18 for petroleum products by light-duty vehicles in the year
 19 2008 and thereafter to no more than 105 percent of the
 20 consumption by such vehicles in the year 2000.

21 (b) NEGOTIATIONS.—Upon completion of the study
 22 of the National Academy of Sciences on the effectiveness
 23 and impact of corporate average fuel economy standards,
 24 and taking into account its findings, the Secretary of
 25 Transportation, in coordination with the Secretary of En-

1 ergy and the Administrator of the Environmental Protec-
2 tion Agency, shall negotiate with the manufacturers of
3 automobiles sold in the United States enforceable mecha-
4 nisms to increase vehicle efficiency or provide vehicle alter-
5 natives to meet the petroleum demand target in subsection
6 (a) while ensuring consumers reliable and affordable
7 transportation services.

8 (c) RULES.—Upon completion of the negotiations
9 under subsection (b) and, in any event, not later than 18
10 months after the date of enactment of this section, the
11 Secretary of Transportation shall establish, by rule—

12 (1) the enforceable mechanisms agreed to under
13 subsection (b); or

14 (2) if enforceable mechanism cannot be agreed
15 on under subsection (b), specific fuel economy regu-
16 lations to meet the petroleum demand targets under
17 subsection (a).

18 (d) ANALYSES AND REPORTS TO CONGRESS.—The
19 Department of Energy shall assist the Secretary of Trans-
20 portation by carrying out analyses of recommended poli-
21 cies or combinations of policies to determine if the petro-
22 leum demand target in subsection (a) is likely to be met.
23 Once enforceable mechanisms are adopted under sub-
24 section (b), the Secretary of Energy shall track progress
25 towards meeting the petroleum demand target and shall

1 report to Congress three years after the date of enactment
2 of this section, and every two years thereafter until the
3 year 2008, on the Secretary of Energy's determination as
4 to whether the mechanisms are effectively meeting the pe-
5 troleum demand target. If the Secretary of Energy deter-
6 mines that the mechanisms are not effectively meeting the
7 target, then the Secretary shall recommend in the report
8 to Congress on further policies that may be required to
9 meet the target.

10 (e) DEFINITIONS.—In this section:

11 (1) LIGHT-DUTY VEHICLES.—The term “light
12 duty vehicles” includes passenger automobiles, in ad-
13 dition to all light trucks and sport utility vehicles
14 marketed as passenger vehicles, regardless of weight.

15 (2) MECHANISMS.—The term “mechanisms” in-
16 cludes stronger standards for corporate average fuel
17 economy, alternatives to the current fuel economy
18 standards such as combining cars and light trucks
19 for the purpose of fuel economy regulation, specific
20 fuel efficiency standards by vehicle class, tax incen-
21 tives for highly efficient or alternative fuel vehicles,
22 updating and expanding the scope of the current gas
23 guzzler tax program, and new programs to promote
24 the purchase of high efficiency and alternative fuel
25 vehicles or early retirement of inefficient vehicles.

1 **SEC. 1202. INCREASED USE OF ALTERNATIVE FUELS BY**
2 **FEDERAL FLEETS.**

3 (a) REQUIREMENT TO USE ALTERNATIVE FUELS.—
4 Section 400AA(a)(3)(E) of the Energy Policy and Con-
5 servation Act (42 U.S.C. 6374(a)(3)(E)) is amended to
6 read as follows:

7 “(E) Dual fueled vehicles acquired pursu-
8 ant to this section shall be operated on alter-
9 native fuels. If the Secretary determines that all
10 dual fueled vehicles acquired pursuant to this
11 section cannot operate on alternative fuels at all
12 times, he may waive the requirement in part,
13 but only to the extent that—

14 “(i) not later than September 30,
15 2003, not less than 50 percent of the total
16 annual volume of fuel used in such dual
17 fueled vehicles shall be from alternative
18 fuels; and

19 “(ii) not later than September 30,
20 2005, not less than 75 percent of the total
21 annual volume of fuel used in such dual
22 fueled vehicles shall be from alternative
23 fuels.”.

24 (b) Section 400AA(g)(4)(B) of the Energy Policy and
25 Conservation Act (42 U.S.C. 6374(g)(4)(B)) is amended
26 by adding, after the words, “solely on alternative fuel”,

1 “, including a three-wheeled enclosed electric vehicle hav-
 2 ing a vehicle identification number”.

3 **SEC. 1203. EXCEPTION TO HOV PASSENGER REQUIRE-**
 4 **MENTS FOR ALTERNATIVE FUEL VEHICLES.**

5 Section 102(a)(1) of title 23, United States Code, is
 6 amended by inserting after “required” the following: “(un-
 7 less, in the discretion of the State transportation depart-
 8 ment, the vehicle is being operated on, or is being fueled
 9 by, an alternative fuel (as defined in section 301(2) of the
 10 Energy Policy Act of 1992 (42 U.S.C. 13211(2))))”.

11 **TITLE XIII—FACILITIES**

12 **SEC. 1301. FEDERAL ENERGY BANK.**

13 (a) DEFINITIONS.—In this section:

14 (1) AGENCY.—The term “agency” means—

15 (A) an Executive agency (as defined in sec-
 16 tion 105 of title 5, United States Code, except
 17 that the term also includes the United States
 18 Postal Service);

19 (B) Congress and any other entity in the
 20 legislative branch; and

21 (C) a court and any other entity in the ju-
 22 dicial branch.

23 (2) BANK.—The term “Bank” means the Fed-
 24 eral Energy Bank established by subsection (b).

1 (3) ENERGY EFFICIENCY PROJECT.—The term
 2 “energy efficiency project” means a project that as-
 3 sists an agency in meeting or exceeding the energy
 4 efficiency goals stated in—

5 (A) part 3 of title V of the National En-
 6 ergy Conservation Policy Act (42 U.S.C. 8251
 7 et seq.);

8 (B) subtitle F of title I of the Energy Pol-
 9 icy Act of 1992; and

10 (C) applicable Executive orders, including
 11 Executive Order Nos. 12759 and 12902.

12 (4) SECRETARY.—The term “Secretary” means
 13 the Secretary of Energy.

14 (5) TOTAL UTILITY PAYMENTS.—The term
 15 “total utility payments” means payments made to
 16 supply electricity, natural gas, and any other form
 17 of energy to provide the heating, ventilation, and air
 18 conditioning, lighting, and other energy needs of an
 19 agency facility.

20 (b) ESTABLISHMENT OF BANK.—

21 (1) IN GENERAL.—There is established in the
 22 Treasury of the United States a trust fund to be
 23 known as the “Federal Energy Bank”, consisting
 24 of—

1 (A) such amounts as are appropriated to
2 the Bank under subsection (f);

3 (B) such amounts as are transferred to the
4 Bank under paragraph (2);

5 (C) such amounts as are repaid to the
6 Bank under subsection (c)(2)(D); and

7 (D) any interest earned on investment of
8 amounts in the Bank under paragraph (3).

9 (2) TRANSFERS TO BANK.—

10 (A) IN GENERAL.—At the beginning of
11 each of fiscal years 2002, 2003, and 2004, each
12 agency shall transfer to the Secretary of the
13 Treasury, for deposit in the Bank, an amount
14 equal to 5 percent of the total utility payments
15 paid by the agency in the preceding fiscal year.

16 (B) UTILITIES PAID FOR AS PART OF
17 RENTAL PAYMENTS.—The Secretary shall by
18 regulation establish a formula by which the ap-
19 propriate portion of a rental payment that cov-
20 ers the cost of utilities shall be considered to be
21 a utility payment for the purposes of subpara-
22 graph (A).

23 (3) INVESTMENT OF FUNDS.—The Secretary of
24 the Treasury shall invest such portion of funds in
25 the Bank as is not, in the Secretary's judgment, re-

1 quired to meet current withdrawals. Investments
2 may be made only in interest-bearing obligations of
3 the United States.

4 (c) LOANS FROM THE BANK.—

5 (1) IN GENERAL.—The Secretary of the Treas-
6 ury shall transfer from the Bank to the Secretary
7 such amounts as are appropriated to carry out the
8 loan program under paragraph (2).

9 (2) LOAN PROGRAM.—

10 (A) IN GENERAL.—In accordance with
11 subsection (d), the Secretary shall establish a
12 program to loan amounts from the Bank to any
13 agency that submits an application satisfactory
14 to the Secretary in order to finance an energy
15 efficiency project.

16 (B) PERFORMANCE CONTRACTING FUND-
17 ING.—To the extent practicable, an agency shall
18 not submit a project for which performance
19 contracting funding is available.

20 (C) PURPOSES OF LOAN.—

21 (i) IN GENERAL.—A loan under this
22 section may be made to pay the costs of—

23 (I) an energy efficiency project;

24 or

1 (II) development and administra-
2 tion of a performance contract.

3 (ii) LIMITATION.—An agency may use
4 not more than 15 percent of the amount of
5 a loan under clause (i)(I) to pay the costs
6 of administration and proposal develop-
7 ment (including data collection and energy
8 surveys).

9 (D) REPAYMENTS.—

10 (i) IN GENERAL.—An agency shall
11 repay to the Bank the principal amount of
12 the energy efficiency project loan plus in-
13 terest at a rate determined by the Presi-
14 dent, in consultation with the Secretary
15 and the Secretary of the Treasury.

16 (ii) WAIVER.—The Secretary may
17 waive the requirement of clause (i) if the
18 Secretary determines that payment of in-
19 terest by an agency is not required to sus-
20 tain the needs of the Bank in making en-
21 ergy efficiency project loans.

22 (E) AGENCY ENERGY BUDGETS.—Until a
23 loan is repaid, an agency budget submitted to
24 Congress for a fiscal year shall not be reduced
25 by the value of energy savings accrued as a re-

1 sult of the energy conservation measure imple-
2 mented with funds from the Bank.

3 (F) AVAILABILITY OF FUNDS.—An agency
4 shall not rescind or reprogram funds made
5 available by this Act. Funds loaned to an agen-
6 cy shall be retained by the agency until ex-
7 pended, without regard to fiscal year limitation.

8 (d) SELECTION CRITERIA.—

9 (1) IN GENERAL.—The Secretary shall establish
10 criteria for the selection of energy efficiency projects
11 to be awarded loans in accordance with paragraph
12 (2).

13 (2) SELECTION CRITERIA.—The Secretary may
14 make loans only for energy efficiency projects that—

15 (A) are technically feasible;

16 (B) are determined to be cost-effective
17 using life cycle cost methods established by the
18 Secretary by regulation;

19 (C) include a measurement and manage-
20 ment component to—

21 (i) commission energy savings for new
22 Federal facilities; and

23 (ii) monitor and improve energy effi-
24 ciency management at existing Federal fa-
25 cilities; and

1 (D) have a project payback period of 7
2 years or less.

3 (e) REPORTS AND AUDITS.—

4 (1) REPORTS TO THE SECRETARY.—Not later
5 than 1 year after the installation of an energy effi-
6 ciency project that has a total cost of more than
7 \$1,000,000, and each year thereafter, an agency
8 shall submit to the Secretary a report that—

9 (A) states whether the project meets or
10 fails to meet the energy savings projections for
11 the project; and

12 (B) for each project that fails to meet the
13 savings projections, states the reasons for the
14 failure and describes proposed remedies.

15 (2) AUDITS.—The Secretary may audit any en-
16 ergy efficiency project financed with funding from
17 the Bank to assess the project's performance.

18 (3) REPORTS TO CONGRESS.—At the end of
19 each fiscal year, the Secretary shall submit to Con-
20 gress a report on the operations of the Bank, includ-
21 ing a statement of the total receipts into the Bank,
22 and the total expenditures from the Bank to each
23 agency.

1 (f) AUTHORIZATION OF APPROPRIATIONS.—There
 2 are authorized to be appropriated such sums as are nec-
 3 essary to carry out this section.

4 **SEC. 1302. INCENTIVES FOR ENERGY EFFICIENT SCHOOLS.**

5 (a) ESTABLISHMENT.—There is established in the
 6 Department of Education the High Performance Schools
 7 Program (hereafter in this section referred to as the “Pro-
 8 gram”).

9 (b) GRANTS.—The Secretary of Education may make
 10 grants to State educational agencies—

11 (1) to assist schools in achieving energy effi-
 12 ciency performance not less than 30 percent below
 13 the least efficient levels, as measured over the full
 14 fuel cycle, permitted under the 1998 International
 15 Energy Conservation Code as it is in effect for new
 16 construction and existing buildings;

17 (2) to administer the Program; and

18 (3) to promote participation in the Program.

19 (c) GRANTS TO ASSIST SCHOOL DISTRICTS.—Grants
 20 under subsection (b)(1) shall be used for schools that—

21 (1) have demonstrated a need for such grants
 22 in order to respond appropriately to increasing ele-
 23 mentary and secondary school enrollments or to
 24 make major investments in renovation of school fa-
 25 cilities;

1 (2) have demonstrated that the districts do not
2 have adequate funds to respond appropriately to
3 such enrollments or achieve such investments with-
4 out assistance;

5 (3) have made a commitment to use the grant
6 funds to develop high performance school buildings
7 in accordance with a plan that the State educational
8 agency, in consultation with the State energy office,
9 has determined is feasible and appropriate to achieve
10 the purposes for which the grant is made.

11 (d) GRANTS FOR ADMINISTRATION.—Grants under
12 subsection (b)(2) shall be used to—

13 (1) evaluate compliance by schools with require-
14 ments of this section;

15 (2) distribute information and materials to
16 clearly define and promote the development of high
17 performance school buildings for both new and exist-
18 ing facilities;

19 (3) organize and conduct programs for school
20 board members, school personnel, architects, engi-
21 neers, and others to advance the concepts of high
22 performance school buildings;

23 (4) obtain technical services and assistance in
24 planning and designing high performance school
25 buildings; or

1 (5) collect and monitor data and information
2 pertaining to the high performance school building
3 projects.

4 (e) GRANTS TO PROMOTE PARTICIPATION.—Grants
5 under subsection (b)(3) shall be used for promotional and
6 marketing activities, including facilitating private and
7 public financing, promoting the use of energy service com-
8 panies, working with school administrations, students, and
9 communities, and coordinating public benefit programs.

10 (f) SUPPLEMENTING GRANT FUNDS.—The State
11 educational agency shall encourage qualifying schools to
12 supplement funds awarded pursuant to this section with
13 funds from other sources in the implementation of their
14 plans.

15 (g) PURPOSES.—Except as provided in subsection
16 (h), funds appropriated to carry out this section shall be
17 allocated as follows:

18 (1) 70 percent shall be used to make grants
19 under subsection (b)(1).

20 (2) 15 percent shall be used to make grants
21 under subsection (b)(2).

22 (3) 15 percent shall be used to make grants
23 under subsection (b)(3).

24 (h) OTHER FUNDS.—The Secretary of Education
25 may retain an amount, not to exceed \$300,000 per year,

1 to assist State educational agencies designated in coordi-
 2 nating and implementing the Program. Such funds may
 3 be used to develop reference materials to further define
 4 the principles and criteria to achieve high performance
 5 school buildings.

6 (i) AUTHORIZATION OF APPROPRIATIONS.—For
 7 grants under subsection (b) there are authorized to be
 8 appropriated—

- 9 (1) \$200,000,000 for fiscal year 2002,
- 10 (2) \$210,000,000 for fiscal year 2003,
- 11 (3) \$220,000,000 for fiscal year 2004,
- 12 (4) \$230,000,000 for fiscal year 2005, and
- 13 (5) such sums as may be necessary for each of
- 14 the subsequent 6 fiscal years.

15 (j) DEFINITIONS.—For purposes of this section:

- 16 (1) HIGH PERFORMANCE SCHOOL BUILDING.—
- 17 The term “high performance school building” refers
- 18 to a school building that, in its design, construction,
- 19 operation, and maintenance, maximizes use of re-
- 20 newable energy, direct use of environmentally clean
- 21 fossil fuels for supplementary space conditioning and
- 22 water heating and energy conservation practices,
- 23 represents the most cost-effective alternatives on a
- 24 life-cycle basis considering energy price forecasts
- 25 from the U.S. Energy Information Administration,

1 uses affordable, environmentally preferable, durable
2 materials, enhances indoor environmental quality,
3 protects and conserves water, and optimizes site po-
4 tential.

5 (2) RENEWABLE ENERGY.—The term “renew-
6 able energy” means energy produced by solar, wind,
7 geothermal, hydropower, and biomass power.

8 (3) SCHOOL.—The term “school” means—

9 (A) an “elementary school” as that term is
10 defined in section 14101(14) of the Elementary
11 and Secondary Education Act of 1965 (20
12 U.S.C. 8801(14)),

13 (B) a “secondary school” as that term is
14 defined in section 14101(25) of the Elementary
15 and Secondary Education Act of 1965 (20
16 U.S.C. 8801(25)), or

17 (C) an elementary or secondary Indian
18 school funded by the Bureau of Indian Affairs.

19 (4) STATE EDUCATIONAL AGENCY.—The term
20 “State educational agency” has the same meaning
21 given such term in section 14101(28) of the Elemen-
22 tary and Secondary Education Act of 1965 (20
23 U.S.C. 8801(28)).

1 **SEC. 1303. VOLUNTARY COMMITMENTS TO REDUCE INDUS-**
2 **TRIAL ENERGY INTENSITY.**

3 (a) VOLUNTARY AGREEMENTS.—The Secretary of
4 Energy shall enter into voluntary agreements with one or
5 more persons in industrial sectors that consume signifi-
6 cant amounts of primary energy per unit of physical out-
7 put to reduce the energy intensity of their production ac-
8 tivities.

9 (b) GOAL.—Voluntary agreements under this section
10 shall have a goal of reducing energy intensity by not less
11 than 1 percent each year from 2002 through 2012.

12 (c) RECOGNITION.—The Secretary of Energy, in co-
13 operation with other appropriate federal agencies, shall de-
14 velop mechanisms to recognize and publicize the commit-
15 ments made by participants in voluntary agreements
16 under this section.

17 (d) DEFINITION.—In this section, the term “energy
18 intensity” means the primary energy consumed per unit
19 of physical output in an industrial process.

**DIVISION E—ENHANCING
RESEARCH, DEVELOPMENT,
AND TRAINING
TITLE XIV—RESEARCH AND
DEVELOPMENT PROGRAMS**

SEC. 1401. SHORT TITLE AND FINDINGS.

(a) **SHORT TITLE.**—This title may be cited as “Energy Science and Technology Enhancement Act”.

(b) **FINDINGS.**—

(1) A coherent strategy for ensuring a diverse national energy supply requires an energy research and development program that supports basic energy research and provides mechanisms to develop, demonstrate, and deploy new energy technologies in partnership with industry.

(2) Federal budget authority for energy research and development, measured in constant 1992 dollars, has declined roughly three-fourths from about \$6 billion in 1980 to \$1.5 billion in 2000.

(3) According to the Energy Information Administration, an aggressive national energy research, development, and technology deployment program can—

1 (A) result in United States energy inten-
2 sity declines of 1.9 percent per year from 1999
3 to 2020;

4 (B) reduce United States energy consump-
5 tion in 2020 by 8 quadrillion Btu from other-
6 wise expected levels; and

7 (C) reduce carbon dioxide emissions from
8 expected levels of 166 million metric tons in
9 carbon equivalent in 2020.

10 (4) An aggressive national energy research, de-
11 velopment, and technology deployment program can
12 also help maintain domestic United States produc-
13 tion of energy. As one example, such a program
14 could increase the success rates of finding and drill-
15 ing for oil and natural gas, and thereby increase
16 United States hydrocarbon reserves in 2020 by 14
17 percent over otherwise expected levels, and contrib-
18 uting to natural gas prices in 2020 that would be 20
19 percent lower than otherwise expected.

20 (5) An aggressive national energy research, de-
21 velopment, and technology deployment program is
22 needed if United States suppliers and manufacturers
23 are to compete in future markets for advanced en-
24 ergy technologies. Vehicles based on advanced en-
25 ergy technologies in automotive applications could

1 account, for example, for nearly 17 percent of all
 2 light-duty vehicle sales by 2020 displacing 203,000
 3 oil barrels a day equivalent.

4 (6) To achieve these results across a broad
 5 range of sources of energy supply and energy end-
 6 uses, a comprehensive and balanced energy research,
 7 development, and technology deployment program
 8 must be supported by the Department of Energy.

9 **SEC. 1402. ENHANCED ENERGY EFFICIENCY RESEARCH**
 10 **AND DEVELOPMENT.**

11 (a) GOALS.—It is the sense of Congress that a bal-
 12 anced energy research, development, and deployment pro-
 13 gram to enhance energy efficiency should have the fol-
 14 lowing goals:

15 (1) For energy efficiency in housing, the pro-
 16 gram should develop technologies, housing compo-
 17 nents, designs and production methods that will, by
 18 2010—

19 (A) reduce the time needed to move tech-
 20 nologies to market by 50 percent,

21 (B) reduce the monthly cost of new hous-
 22 ing by 20 percent,

23 (C) cut the environmental impact and en-
 24 ergy use of new housing by 50 percent, and

1 (D) reduce energy use in 15 million exist-
2 ing homes by 30 percent, and

3 (E) improve durability and reduce mainte-
4 nance costs by 50 percent.

5 (2) For industrial energy efficiency, the pro-
6 gram should, in cooperation with the affected
7 industries—

8 (A) develop a microturbine (40 to 300 kilo-
9 watt) that is more than 40 percent efficient by
10 2006,

11 (B) develop a microturbine that is more
12 than 50 percent efficient by 2010,

13 (C) develop advanced materials for com-
14 bustion systems that reduce emissions of nitro-
15 gen oxides by 30 to 50 percent while increasing
16 efficiency 5 to 10 percent by 2007, and

17 (D) improve the energy intensity of the
18 major energy-consuming industries by at least
19 25 percent by 2010.

20 (3) For transportation energy efficiency, the
21 program should, in cooperation with affected
22 industries—

23 (A) develop an 80-mile-per-gallon produc-
24 tion prototype passenger automobile by 2004,

1 (B) develop a heavy truck (Classes 7 and
 2 8) with ultra low emissions and the ability to
 3 use an alternative fuel that has an average fuel
 4 economy of—

5 (i) 10 miles per gallon by 2007, and

6 (ii) 13 miles per gallon by 2010,

7 (C) develop a production prototype of a
 8 passenger automobile with zero equivalent emis-
 9 sions that has an average fuel economy of 100
 10 miles per gallon by 2010, and

11 (D) improve, by 2010, the average fuel
 12 economy of trucks—

13 (i) in Classes 1 and 2 by 300 percent,

14 and

15 (ii) in Classes 3 through 6 by 200

16 percent.

17 (b) DEFINITION.—For purposes of subsection (a)(2),
 18 the term “major energy consuming industries” means—

19 (1) the forest product industry,

20 (2) the steel industry,

21 (3) the aluminum industry,

22 (4) the metal casting industry,

23 (5) the chemical industry,

24 (6) the petroleum refining industry, and

25 (7) the glass-making industry.

1 (c) AUTHORIZATION OF APPROPRIATIONS.—There
2 are authorized to be appropriated to the Secretary of En-
3 ergy for operating expenses and capital equipment for re-
4 search, development, demonstration, and initial deploy-
5 ment assistance activities related to energy efficiency re-
6 search and development including state and local grants
7 and the federal energy management program—

8 (1) \$879,000,000 for fiscal year 2002;

9 (2) \$948,000,000 for fiscal year 2003;

10 (3) \$1,024,000,000 for fiscal year 2004;

11 (4) \$1,106,000,000 for fiscal year 2005; and

12 (5) \$1,195,000,000 for fiscal year 2006.

13 (d) SPECIAL PROJECTS IN ENERGY-EFFICIENT
14 TRANSMISSION.—From amounts authorized under this
15 section, the Secretary of Energy shall make not more than
16 3 awards for projects demonstrating the use of advanced
17 technology—

18 (1) to construct a bulk electricity transmission
19 line of not less than 35 miles based on wire fab-
20 ricated from superconducting materials; and

21 (2) to provide a 20 percent increase in the aver-
22 age efficiency in electricity transmission systems in
23 rural and remote areas.

1 **SEC. 1403. ENHANCED RENEWABLE ENERGY RESEARCH**
2 **AND DEVELOPMENT.**

3 (a) GOALS.—It is the sense of Congress that a bal-
4 anced energy research, development, and deployment pro-
5 gram to enhance renewable energy should have the fol-
6 lowing goals.

7 (1) For wind power, the program should reduce
8 the cost of wind electricity by 50 percent by 2006,
9 so that wind power can be widely competitive with
10 fossil-fuel-based electricity in a restructured electric
11 industry, with concentration within the program on
12 a variety of advanced wind turbine concepts and
13 manufacturing technologies.

14 (2) For photovoltaics, the programs should pur-
15 sue research and development that would lead to
16 photovoltaic systems prices of \$3,000 per kilowatt in
17 2003 and \$1,500 per kilowatt by 2006. Program ac-
18 tivities should include assisting industry in devel-
19 oping manufacturing technologies, giving greater at-
20 tention to balance of system issues, and expanding
21 fundamental research on relevant advanced mate-
22 rials.

23 (3) For solar thermal electric systems the pro-
24 gram should strengthen ongoing research and devel-
25 opment combining high-efficiency and high-tempera-
26 ture receivers with advanced thermal storage and

1 power cycles, with the goal of making solar-only
2 power (including baseload solar power) widely com-
3 petitive with fossil fuel power by 2015.

4 (4) For biomass-based power systems, the pro-
5 gram should enable commercialization, within five
6 years, integrated power-generating technologies that
7 employ gas turbines and fuel cells integrated with
8 biomass gasifiers. The program should embrace an
9 interagency bioenergy framework to triple United
10 States bioenergy use by 2010.

11 (5) For geothermal energy, the programs
12 should continue work on hydrothermal systems, and
13 reactivate research and development on advanced
14 concepts, giving top priority to high-grade hot dry-
15 rock geothermal energy. This technology offers the
16 long-term potential, with advanced drilling and res-
17 ervoir exploitation technology, of providing heat and
18 baseload electricity in most areas of the United
19 States.

20 (6) For biofuels, the program should accelerate
21 research and development on advanced enzymatic
22 hydrolysis technology for making ethanol from cel-
23 lulosic feedstock, with the goal that between 2010
24 and 2015 ethanol produced from energy crops would
25 be fully competitive in terms of price with gasoline

1 as a neat fuel, in either internal combustion engine
2 or fuel cell vehicles. The programs should coordinate
3 this development with the biopower program so as
4 to co-optimize the production of ethanol from the
5 carbohydrate fractions of the biomass and electricity
6 from the lighting using advanced biopower tech-
7 nology using a suite of integrated systems from gas
8 turbines to fuel cells.

9 (7) For hydrogen-based energy systems, the
10 program should support research and development
11 on hydrogen-using and hydrogen-producing tech-
12 nologies. The programs should also coordinate hy-
13 drogen-using technology development with proton-ex-
14 change-membrane fuel-cell vehicle development ac-
15 tivities under the enhanced energy efficiency pro-
16 gram in section 1002.

17 (8) For hydropower, the program should pro-
18 vide a new generation of turbine technologies that
19 are less damaging to fish and aquatic ecosystems.
20 By deploying such technologies at existing dams and
21 in new low-head, run-of-river applications, as much
22 as an additional 50,000 MW could be possible by
23 2020.

24 (9) For electric energy and storage, the pro-
25 gram should develop a high capacity super-

1 conducting transmission lines, generators, and de-
 2 velop distributed generating systems to accommo-
 3 date multiple types of energy sources under a com-
 4 mon interconnect standard.

5 (b) AUTHORIZATION OF APPROPRIATIONS.—There
 6 are authorized to be appropriated to the Secretary of En-
 7 ergy for operating expenses and capital equipment for re-
 8 search, development, demonstration, and initial deploy-
 9 ment assistance activities related to solar and renewable
 10 resources technologies, under the Office of Energy Effi-
 11 ciency and Renewable Energy, as follows:

- 12 (1) \$419,500,000 for fiscal year 2002;
- 13 (2) \$468,000,000 for fiscal year 2003;
- 14 (3) \$523,000,000 for fiscal year 2004;
- 15 (4) \$583,000,000 for fiscal year 2005; and
- 16 (5) \$652,000,000 for fiscal year 2006.

17 (c) SPECIAL PROJECTS IN RENEWABLE ENERGY.—
 18 From amounts authorized under this section, the Sec-
 19 retary of Energy shall make not more than 3 awards for
 20 projects demonstrating the use of advanced wind energy
 21 technology to assist in delivering electricity in rural and
 22 remote locations. The Secretary may provide financial as-
 23 sistance to rural electric cooperatives and other rural enti-
 24 ties seeking to submit proposals for such projects.

1 **SEC. 1404. ENHANCED FOSSIL ENERGY RESEARCH AND DE-**
2 **VELOPMENT.**

3 (a) GOALS.—It is the sense of Congress that a bal-
4 anced energy research, development, and deployment pro-
5 gram to enhance renewable energy should have the fol-
6 lowing goals:

7 (1) For core fossil energy research and develop-
8 ment, the program should achieve the goals outlined
9 by the Department of Energy’s Vision 21 program
10 for fossil energy research. This research should aim
11 towards increased efficiency of the combined cycle
12 using high temperature fuel cells, advanced gasifi-
13 cation technologies for coal and biomass to produce
14 power and clean fuels. The program should include
15 a carbon dioxide based sequestration program to
16 help reduce global warming.

17 (2) For offshore oil and natural gas resources,
18 the program should investigate and develop tech-
19 nologies to—

20 (A) extract methane hydrates in coastal
21 waters of the United States, and

22 (B) develop natural gas and oil reserves in
23 the ultra-deepwater of the Central and Western
24 Gulf of Mexico. Research and development on
25 ultra-deepwater resource recovery shall focus on
26 improving the safety and efficiency of such re-

1 covery and of sub-sea production technology
2 used for such recovery, while lowering costs.

3 (3) For transportation fuels, the program
4 should support a comprehensive transportation fuels
5 strategy to increase the price elasticity of oil supply
6 and demand by focusing research on reducing the
7 cost of producing transportation fuels from natural
8 gas and indirect liquefaction of coal and biomass.

9 (b) STUDY.—The Secretary of Energy, in consulta-
10 tion with the Secretary of the Interior, the Administrator
11 of the Environmental Protection Agency and affected in-
12 dustries (including electric utilities, electrical equipment
13 manufacturers, and organizations representing electrical
14 workers) should conduct a study to identify technologies
15 and a research program that would permit the cost-com-
16 petitive use of coal for electricity generation through 2020
17 while furthering national environmental goals.

18 (c) AUTHORIZATION OF APPROPRIATIONS.—In addi-
19 tion to the amounts authorized under section 814 of this
20 Act, there are authorized to be appropriated to the Sec-
21 retary of Energy for operating expenses and capital equip-
22 ment for research, development, demonstration, and initial
23 deployment assistance activities related to fossil energy re-
24 sources technologies, under the Office of Fossil Energy,

1 including the clean coal technology demonstration pro-
2 gram:

- 3 (1) \$462,500,000 for fiscal year 2002;
- 4 (2) \$485,000,000 for fiscal year 2003;
- 5 (3) \$508,000,000 for fiscal year 2004;
- 6 (4) \$532,000,000 for fiscal year 2005; and
- 7 (5) \$558,000,000 for fiscal year 2006.

8 **SEC. 1405. ENHANCED NUCLEAR ENERGY RESEARCH AND**
9 **DEVELOPMENT.**

10 (a) GOALS.—It is the sense of Congress that a bal-
11 anced energy research, development, and deployment pro-
12 gram to enhance renewable energy should have the fol-
13 lowing goals:

14 (1) The program should support research re-
15 lated to existing United States nuclear power reac-
16 tors to extend their lifetimes and increase their reli-
17 ability while optimizing their current operations for
18 greater efficiencies.

19 (2) The program should address advanced pro-
20 liferation-resistant reactor designs, proliferation-re-
21 sistant and high burn-up nuclear fuels, minimization
22 of generation of radioactive materials, improved nu-
23 clear waste management technologies, and improved
24 instrumentation science.

1 (3) The program should attract new students
2 and faculty to the nuclear sciences and nuclear engi-
3 neering through a university-based fundamental re-
4 search program for existing faculty and new junior
5 faculty, a program to re-license existing training re-
6 actors at universities in conjunction with industry,
7 and a program to complete the conversion of existing
8 training reactors with proliferation resistant fuels
9 that are low enriched and to adapt those reactors to
10 new investigative uses.

11 (4) The program should maintain a national ca-
12 pability and infrastructure to produce medical iso-
13 topes and ensure a well trained cadre of nuclear
14 medicine specialists in partnership with industry.

15 (5) The program should ensure that our nation
16 has adequate capability for power future satellite
17 and space missions.

18 (6) The programs should investigate the funda-
19 mental and applied sciences associated with high-
20 and low-energy accelerators as a method to trans-
21 mute nuclear waste, particularly wastes that may be
22 difficult to dispose of by other methods.

23 (7) The program should maintain, where appro-
24 priate through a prioritization process, a balanced

1 research infrastructure so that future research pro-
 2 grams can utilize these facilities.

3 (b) AUTHORIZATION OF APPROPRIATIONS.—There
 4 are authorized to be appropriated to the Secretary of En-
 5 ergy for operating expenses and capital equipment for re-
 6 search, development, demonstration, and initial deploy-
 7 ment assistance activities related to nuclear energy re-
 8 search and development:

9 (1) \$433,000,000 for fiscal year 2002;

10 (2) \$461,000,000 for fiscal year 2003;

11 (3) \$491,000,000 for fiscal year 2004;

12 (4) \$523,000,000 for fiscal year 2005; and

13 (5) \$557,000,000 for fiscal year 2006.

14 **SEC. 1406. ENHANCED PROGRAMS IN FUNDAMENTAL EN-**
 15 **ERGY SCIENCE.**

16 (a) FINDINGS.—The Congress finds the following:

17 (1) The Office of Science within the Depart-
 18 ment of Energy is the nation's single largest funding
 19 source for the basic physical sciences. These intellec-
 20 tual disciplines, which include physics, chemistry,
 21 and materials science, are crucial to the nation's fu-
 22 ture ability to develop energy technologies. The
 23 United States should be the world leader in these
 24 areas.

1 (2) Despite the importance of the physical
2 sciences, the Office of Science budget has remained
3 stagnant over the past decade.

4 (3) The stagnation in funding for the physical
5 sciences through the Office of Science has been re-
6 flected in a decline in United States contributions to
7 leading scientific journals, as the share of European
8 and Asian submissions to these journals since 1990
9 has increased from 50 to 75 percent while the
10 United States share has decreased to 25 percent.

11 (b) GOALS.—It is the sense of Congress that the De-
12 partment of Energy, through the Office of Science,
13 should—

14 (1) develop a robust portfolio of fundamental
15 energy research, including chemical sciences, phys-
16 ics, materials sciences, biological and environmental
17 sciences, geosciences, engineering sciences, plasma
18 sciences, mathematics, and advanced scientific com-
19 puting;

20 (2) maintain, upgrade and expand the scientific
21 user facilities maintained by the Office of Science
22 and insure that they are an integral part of the De-
23 partment's mission for exploring the frontiers of
24 fundamental energy sciences;

1 (3) maintain a leading-edge research capability
 2 in the energy-related aspects of nanoscience and
 3 nanotechnology, advanced scientific computing and
 4 genome research; and

5 (4) ensure that its fundamental energy sciences
 6 programs, where appropriate, help inform the ap-
 7 plied research and development programs of the De-
 8 partment.

9 (c) AUTHORIZATION OF APPROPRIATIONS.—There
 10 are authorized to be appropriated to the Secretary of En-
 11 ergy for operating expenses and capital equipment for fun-
 12 damental energy research and development in the Office
 13 of Science—

14 (1) \$3,716,000,000 for fiscal year 2002;

15 (2) \$4,087,000,000 for fiscal year 2003;

16 (3) \$4,496,000,000 for fiscal year 2004;

17 (4) \$4,946,000,000 for fiscal year 2005; and

18 (5) \$5,440,000,000 for fiscal year 2006.

19 **TITLE XV—MANAGEMENT OF**
 20 **DOE SCIENCE AND TECH-**
 21 **NOLOGY PROGRAMS**

22 **SEC. 1501. MERIT REVIEW.**

23 Awards of funds authorized under title XIV shall be
 24 made only after independent review of the scientific and

1 technical merit of the proposals therefor has been under-
2 taken by the Department of Energy.

3 **SEC. 1502. COST SHARING.**

4 (a) RESEARCH AND DEVELOPMENT.—For research
5 and development projects funded from appropriations au-
6 thorized under sections 1402 through 1405, the Secretary
7 of Energy shall require a commitment from non-Federal
8 sources of at least 20 percent of the cost of the project.
9 The Secretary may reduce or eliminate the non-Federal
10 requirement under this paragraph if the Secretary deter-
11 mines that the research and development is of a basic or
12 fundamental nature.

13 (b) DEMONSTRATION AND DEPLOYMENT.—For dem-
14 onstration and deployment activities funded from appro-
15 priations authorized under sections 1402 through 1405,
16 the Secretary of Energy shall require a commitment from
17 non-Federal sources of at least 50 percent of the costs
18 of the project directly and specifically related to any dem-
19 onstration, deployment, or commercial application. The
20 Secretary may reduce or eliminate the non-Federal re-
21 quirement under this paragraph if the Secretary deter-
22 mines that the reduction is necessary and appropriate con-
23 sidering the technological risks involved in the project and
24 is necessary to meet one or more goals of this title.

1 (c) CALCULATION OF AMOUNT.—In calculating the
 2 amount of the non-Federal commitment under subsection
 3 (a) or (b), the Secretary shall include cash, personnel,
 4 services, equipment, and other resources.

5 **SEC. 1503. IMPROVED COORDINATION AND MANAGEMENT**
 6 **OF SCIENCE AND TECHNOLOGY.**

7 (a) NATIONAL ENERGY RESEARCH AND DEVELOP-
 8 MENT ADVISORY BOARDS.—

9 (1) ESTABLISHMENT.—The Secretary of En-
 10 ergy shall establish an advisory board to oversee De-
 11 partment of Energy research and development pro-
 12 grams in each of the following areas:

13 (A) energy efficiency;

14 (B) renewable energy;

15 (C) fossil energy; and

16 (D) nuclear energy.

17 The Secretary may designate an existing advisory
 18 board within the Department to fulfill the respon-
 19 sibilities of an advisory board under this subsection,
 20 or may enter into appropriate arrangements with the
 21 National Academy of Sciences to establish such an
 22 advisory board.

23 (2) UTILIZATION OF EXISTING COMMITTEES.—

24 The Secretary of Energy shall continue to use the
 25 scientific program advisory committees chartered

1 under the Federal Advisory Committee Act by the
2 Office of Science to oversee research and develop-
3 ment programs under that Office.

4 (3) MEMBERSHIP.—Each advisory board under
5 this subsection shall consist of experts drawn from
6 industry, academia, federal laboratories, or other re-
7 search institutions.

8 (4) MEETINGS AND PURPOSES.—Each advisory
9 board under this subsection shall meet at least semi-
10 annually to review and advise on the progress made
11 by the respective research, development, and deploy-
12 ment program. The advisory board shall also review
13 the adequacy and relevance of the goals established
14 for each program by Congress and the President,
15 and may otherwise advise on promising future direc-
16 tions in research and development that should be
17 considered by each program.

18 (b) EFFECTIVE COORDINATION OF DEPARTMENT
19 PROGRAMS.—Section 202(b) of the Department of Energy
20 Organization Act (42 U.S.C. 7132(b)) is amended to read
21 as follows:

22 “(b)(1) There shall be in the Department an Under
23 Secretary for Science and Technology, who shall be ap-
24 pointed by the President, by and with the advice and con-
25 sent of the Senate. The Under Secretary shall be com-

1 pensated at the rate provided for at level III of the Execu-
2 tive Schedule under section 5314 of title 5, United States
3 Code.

4 “(2) The Under Secretary for Science and Tech-
5 nology shall be appointed from among persons who—

6 “(A) have extensive background in scientific or
7 engineering fields; and

8 “(B) are well qualified to manage the civilian
9 research and development programs of the Depart-
10 ment of Energy.

11 “(3) The Under Secretary for Science and Tech-
12 nology shall—

13 “(A) serve as the Science and Technology Advi-
14 sor to the Secretary;

15 “(B) monitor the Department’s research and
16 development programs in order to advise the Sec-
17 retary with respect to any undesirable duplication or
18 gaps in such programs;

19 “(C) advise the Secretary with respect to the
20 well-being and management of the multipurpose lab-
21 oratories under the jurisdiction of the Department;

22 “(D) advise the Secretary with respect to edu-
23 cation and training activities required for effective
24 short- and long-term basic and applied research ac-
25 tivities of the Department;

1 “(E) advise the Secretary with respect to grants
 2 and other forms of financial assistance required for
 3 effective short- and long-term basic and applied re-
 4 search activities of the Department; and

5 “(F) exercise authority and responsibility over
 6 the performance of functions under section
 7 203(a)(2), as well as other civilian research and de-
 8 velopment authorities assigned to the Secretary by
 9 statute.”.

10 (c) TRANSFER OF RESPONSIBILITIES FROM OFFICE
 11 OF SCIENCE.—Section 209 of the Department of Energy
 12 Organization Act (41 U.S.C. 7139) is amended by—

13 (1) striking “(a)”; and

14 (2) striking subsection (b).

15 (d) TECHNICAL AND CONFORMING AMENDMENTS.—

16 (1) Section 202 of the Department of Energy
 17 Organization Act (42 U.S.C. 7132) is further
 18 amended by adding the following at the end:

19 “(c) There shall be in the Department an Under Sec-
 20 retary, who shall be appointed by the President, by and
 21 with the advice and consent of the Senate, and who shall
 22 perform such functions and duties as the Secretary shall
 23 prescribe, consistent with this section. The Under Sec-
 24 retary shall be compensated at the rate provided for level

1 III of the Executive Schedule under section 5314 of title
2 5, United States Code.

3 “(d) There shall be in the Department a General
4 Counsel, who shall be appointed by the President, by and
5 with the advice and consent of the Senate. The General
6 Counsel shall be compensated at the rate provided for level
7 IV of the Executive Schedule under section 5315 of title
8 5, United States Code.”.

9 (2) Section 5314 of title 5, United States Code
10 is amended by striking “Under Secretaries of En-
11 ergy (2)” and inserting “Under Secretaries of En-
12 ergy (3)”.

13 **TITLE XVI—PERSONNEL AND** 14 **TRAINING**

15 **SEC. 1601. WORKFORCE TRENDS AND TRAINEESHIP** 16 **GRANTS.**

17 (a) WORKFORCE TRENDS.—

18 (1) MONITORING.—The Secretary of Energy,
19 acting through the Administrator of the Energy In-
20 formation Administration, in consultation with the
21 Secretary of Labor, shall monitor trends in the
22 workforce of skilled technical personnel supporting
23 energy technology industries, including renewable
24 energy industries, companies developing and com-
25 mercializing devices to increase energy-efficiency, the

1 oil and gas industry, nuclear power industry, the
2 coal industry, and other industrial sectors as the
3 Secretary of Energy may deem appropriate.

4 (2) ANNUAL REPORTS.—The Administrator of
5 the Energy Information Administration shall include
6 statistics on energy industry workforce trends in the
7 annual reports of the Energy Information Adminis-
8 tration.

9 (3) SPECIAL REPORTS.—The Secretary shall re-
10 port to the appropriate committees of Congress
11 whenever the Secretary determines that significant
12 shortfalls of technical personnel in one or more en-
13 ergy industry segments are forecast or have oc-
14 curred.

15 (b) TRAINEESHIP GRANTS FOR TECHNICALLY
16 SKILLED PERSONNEL.—

17 (1) GRANT PROGRAMS.—The Secretary shall es-
18 tablish grant programs in the appropriate offices of
19 the Department of Energy to enhance training of
20 technically skilled personnel for which a shortfall is
21 determined under subsection (a).

22 (2) ELIGIBLE INSTITUTIONS.—As determined
23 by the Secretary of Energy to be appropriate to the
24 particular workforce shortfall, the Secretary shall
25 make grants under paragraph (1) to—

1 (A) an institution of higher education
2 (within the meaning given that term in section
3 1201(a) of the Higher Education Act of 1965
4 (20 U.S.C. 1141(a));

5 (B) a postsecondary educational institution
6 providing vocational and technical education
7 (within the meaning given those terms in sec-
8 tion 3 of the Carl D. Perkins Vocational and
9 Technical Education Act of 1998 (20 U.S.C.
10 2302)); or

11 (C) appropriate agencies of State, local, or
12 tribal governments.

13 **SEC. 1602. TRAINING GUIDELINES FOR ELECTRIC ENERGY**
14 **INDUSTRY PERSONNEL.**

15 (a) MODEL GUIDELINES.—The Secretary of Energy
16 shall, in cooperation with electric utilities and local dis-
17 tribution companies and recognized representatives of em-
18 ployees of those entities, develop model employee training
19 guidelines to support electric supply system reliability and
20 safety.

21 (b) CONTENT OF GUIDELINES.—The guidelines
22 under this section shall include—

23 (1) requirements for worker training, com-
24 petency, and certification, developed using criteria

1 set forth by the Utility Industry Group recognized
2 by the National Skill Standards Board; and

3 (2) consolidation of existing guidelines on the
4 construction, operation, maintenance, and inspection
5 of electric supply generation, transmission and dis-
6 tribution facilities such as those established by the
7 National Electric Safety Code and other industry
8 consensus standards.

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